

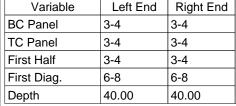
Job Name: LRFD - SJI SUBMITTAL Job Number: 00-0002

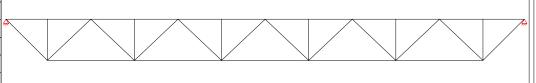
Joist Description:
Deep Long Span 40G6N18F JUAREZ,

Date Run: 10/8/2006 Mark: G01

Geometry

Base Length: 40-0	Working Length	h: Joist Dep 40.00	 · · · · · · · · · · · · · · · · · ·	BC Panel Length: 10 @ 12-0	Shape: Parallel Chords
\	1 -44 E1	Dialet Faul			





Loads

18,000.00 Point Load at Diagonals (lbs)

Stress Analysis Summary

Int. Panel TC: 40.00	Max Panel BC: 80.00	Reaction LE: 54,000.02	Reaction 54,000 .		inimum Shear: 3,500.00	Max TC Comp.: 159,222.67		Max BC Tension 168,728.50	
Member	TC Tension	TC Compresion	BC Tension	BC Compresion	n Web Tension	Web Comp.	Web Length	PP Dist	
W2	0.00	45,152.71	0.00	0.0	63,747.69	0.00	53.65	0-2	
W3	0.00	45,152.71	92,681.84	0.0	0.00	65,452.42	55.08	3-4	
W4	0.00	121,199.34	92,681.84	0.0	39,271.45	0.00	55.08	6-8	
W5	0.00	121,199.34	149,716.83	0.0	0.00	39,271.46	55.08	10-0	
W6	0.00	159,222.67	149,716.83	0.0	19,635.73	0.00	55.08	13-4	
W7	0.00	159,222.67	168,728.50	0.0	0.00	19,635.73	55.08	16-8	
W7	0.00	159,222.66	168,728.50	0.0	0.00	19,635.73	55.08	20-0	
W6	0.00	159,222.66	149,716.83	0.0	19,635.73	0.00	55.08	23-4	
W5	0.00	121,199.34	149,716.83	0.0	0.00	39,271.46	55.08	26-8	
W4	0.00	121,199.34	92,681.84	0.0	39,271.46	0.00	55.08	30-0	
W3	0.00	45,152.70	92,681.84	0.0	0.00	65,452.43	55.08	33-4	
W2	0.00	45,152.70	0.00	0.0	63,747.68	0.00	53.65	36-8	

Member	Position	Max Tension	Max Comp.	Length
V1	End Panel	0.00	3,184.47	37.87
V2	Interior	0.00	3,184.46	37.87



Job Number: **00-0002**

Job Name: LRFD - SJI SUBMITTAL

Joist Description:
Deep Long Span 40G6N18F

Date Run: 10/8/2006 Mark: G01

Chord Properties

Chord	Area	Rx	Rz	Ryy	Υ	lx	Q	Material
TC	2.8594	1.2346	0.7876	2.0514	1.1383	4.3586	1.0000	$42 = 4 \times 4 \times .375$
ВС	2.0867	1.0826	0.6900	1.8419	0.9902	2.4454	0.9854	3E = 3 1/2 x 3 1/2 x .312

Axial and Bending Analysis

K: Fy: 50,000.0	Fb: 45,000.00	Mom of Inertia: 3,467.15	<i>LL 240:</i> 3,113.06	LL 240: 3,113.06	Max Bridg T 29-0 3/4	Max Bridg BC: 36-10
Top Chord Check	End Panel LE	First Panel LE	Interior Panel	First Panel RE	End Panel RE	Gap Between Chords:
Length	38.00	40.00	40.00	40.00	38.00	1.00
Bending Load	0.00	0.00	0.00	0.00	0.00	Min Weld Len 2X: 1.1437
Axial Load	45,152.71	45,152.71	159,222.67	45,152.70	45,152.70	Max Load Fillers TC:
fa	7,895.56	7,895.56	27,842.22	7,895.55	7,895.55	230,262.23
Maximum K L/r	48.25	50.79	39.00	50.79	48.25	Max Load no Fillers TC:
Fa	37,956.62	37,265.01	40,264.44	37,265.01	37,956.62	213,109.25
F'e	157,638.47	142,268.72	142,268.73	142,268.72	157,638.47	TC OAL/Ryy: 232.0318
Cm	0.9850	0.9834	0.9217	0.9834	0.9850	BC Stress:
Panel Point Moment	0.00	0.00	0.00	0.00	0.00	40,430.36
Mid Panel Moment	0.00	0.00	0.00	0.00	0.00	BC L/Rz:
Panel Point fb	0.00	0.00	0.00	0.00	0.00	115.9464
Mid Panel fb	0.00	0.00	0.00	0.00	0.00	TC Shear Stress:
Fillers	0	0	0	0	0	15,510.80
Panel Point Stress	7,895.56	7,895.56	27,842.22	7,895.55	7,895.55	BC Shear Stress: 21,302.73
Mid Panel Stress	0.2080	0.2119	0.6915	0.2119	0.2080	,

TTOD Boolgi							
Member	Web Tension	Allow Tension	Web Comp	Allow Comp	Weld	Qty	Material
W2	63,747.69	64,172.79	0.00	36,946.11	15.3 x 0.187	2	25 = 2 x 2 x .187
W3	0.00	98,739.00	65,452.42	67,913.28	15.7 x 0.188	2	2E = 2 1/2 x 2 1/2 x .230
W4	39,271.45	39,337.92	0.00	9,990.33	9.4 x 0.188	1	28 = 2 x 2 x .232
W5	0.00	78,675.84	39,271.46	43,449.21	9.4 x 0.188	2	28 = 2 x 2 x .232
W6	19,635.73	21,796.88	0.00	5,699.50	7.1 x 0.125	1	20 = 2 x 2 x .125
W7	0.00	43,593.75	19,635.73	22,686.34	7.1 x 0.125	2	20 = 2 x 2 x .125
W7	0.00	43,593.75	19,635.73	22,686.34	7.1 x 0.125	2	20 = 2 x 2 x .125
W6	19,635.73	21,796.88	0.00	5,699.50	7.1 x 0.125	1	20 = 2 x 2 x .125
W5	0.00	78,675.84	39,271.46	43,449.21	9.4 x 0.188	2	28 = 2 x 2 x .232
W4	39,271.46	39,337.92	0.00	9,990.33	9.4 x 0.188	1	28 = 2 x 2 x .232
W3	0.00	98,739.00	65,452.43	67,913.28	15.7 x 0.188	2	2E = 2 1/2 x 2 1/2 x .230
W2	63,747.68	64,172.79	0.00	36,946.11	15.3 x 0.187	2	25 = 2 x 2 x .187
V1	0.00	14,180.35	3,184.47	4,382.70	2.0 x 0.109	1	1C = 1 1/2 x 1 1/2 x .109
V2	0.00	14,180.35	3,184.46	4,382.70	2.0 x 0.109	1	1C = 1 1/2 x 1 1/2 x .109



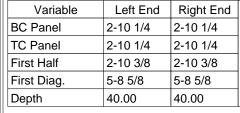
Job Name: LRFD - SJI SUBMITTAL Job Number: 00-0002

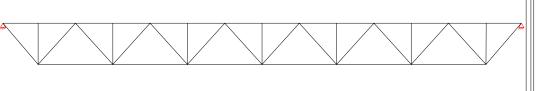
Joist Description:
Deep Long Span 40G7N18F JUAREZ,

Date Run: 10/8/2006 Mark: G02

Geometry

40-0 39-8 40.00 37.84 10 @ 12-0 Parallel Chords	Base Length: 40-0	30-8	Joist Depth: 40.00	Efective Depth: 37.84	BC Panel Length: 10 @ 12-0	Shape: Parallel Chords
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Loads

18,000.00 Point Load at Diagonals (lbs)

Stress Analysis Summary

Int. Panel TC: 34.25	Max Panel BC: 68.63	Reaction LE: 63,028.36			finimum Shear: 5,757.09	Max TC Comp.: 193,022.67	Max BC 1	
Member	TC Tension	TC Compresion	BC Tension	BC Compresio	n Web Tension	Web Comp.	Web Length	PP Dist.
W2	0.00	46,049.94	0.00	0.0	0 70,990.55	0.00	49.72	0-2
W3	0.00	46,049.94	95,134.16	0.0	0.00	72,995.38	51.12	2-10 1/4
W4	0.00	127,746.56	95,134.16	0.0	0 48,596.41	0.00	51.04	5-8 5/8
W5	0.00	127,746.56	160,358.92	0.0	0.00	48,596.41	51.04	8-6 7/8
W6	0.00	176,677.97	160,358.92	0.0	0 24,317.33	0.00	51.04	11-5 1/8
W7	0.00	176,677.97	192,997.00	0.0	0.00	24,317.33	51.04	14-3 3/8
W8	0.00	193,022.67	192,997.00	0.0	0 21,253.75	0.00	51.04	17-1 5/8
W8	0.00	193,022.67	193,048.33	0.0	0.00	21,253.75	51.04	19-11 7/8
W7	0.00	176,780.66	193,048.33	0.0	0.00	24,240.81	51.04	22-10 1/8
W6	0.00	176,780.66	160,512.98	0.0	0 24,240.82	0.00	51.04	25-8 3/8
W5	0.00	127,951.94	160,512.98	0.0	0.00	48,519.89	51.04	28-6 5/8
W4	0.00	127,951.94	95,390.89	0.0	0 48,519.89	0.00	51.04	31-4 7/8
W3	0.00	46,358.19	95,390.89	0.0	0.00	72,918.75	51.12	34-3 1/8
W2	0.00	46,358.19	0.00	0.0	0 71,147.88	0.00	49.88	37-1 1/2

l	Member	Position	Max Tension	Max Comp.	Length
	V1	End Panel	0.00	3,860.45	37.84
	V2	Interior	0.00	3,860.46	37.84



 Job Number:
 Job Name:

 00-0002
 LRFD - SJI

Job Name: LRFD - SJI SUBMITTAL Date Run: 10/8/2006

Location: **JUAREZ**,

Joist Description:
Deep Long Span 40G7N18F

Mark: G02

Chord Properties

Chord	Area	Rx	Rz	Ryy	Y	lx	Q	Material	
TC	3.3050	1.2262	0.7847	2.0643	1.1607	4.9690	1.0000	$44 = 4 \times 4 \times .437$	
ВС	2.2897	1.0781	0.6883	1.8487	1.0018	2.6613	1.0000	3F = 3 1/2 x 3 1/2 x .344	

Axial and Bending Analysis

κ: 1.00	Fy: 50,000.00	Fb: 45,000.00	Mom of Inertia: 3,880.62	LL 240: 3,484.30	LL 240: 3,484.30	Max Bridg 7 29-2 7/8	Max Bridg BC: 36-11 5/8
Top Cl	hord Check	End Panel LE	First Panel LE	Interior Panel	First Panel RE	End Panel RE	Gap Between Chords:
Length		32.25	34.38	34.25	34.63	32.25	1.00
Bending Loa	ıd	0.00	0.00	0.00	0.00	0.00	Min Weld Len 2X: 1.3865
Axial Load		46,049.94	46,049.94	193,022.67	46,358.20	46,358.20	Max Load Fillers TC:
fa		6,966.64	6,966.64	29,201.34	7,013.28	7,013.28	274,443.91
Maximum K	L/r	41.10	43.81	33.18	44.13	41.10	Max Load no Fillers TC:
Fa		39,771.45	39,108.35	41,519.11	39,028.32	39,771.45	258,772.11
F'e		215,867.31	190,003.20	191,392.61	187,269.38	215,867.31	TC OAL/Ryy: 230.5833
Cm		0.9903	0.9890	0.9390	0.9888	0.9903	BC Stress:
Panel Point	Moment	0.00	0.00	0.00	0.00	0.00	42,156.48
Mid Panel M	oment	0.00	0.00	0.00	0.00	0.00	BC L/Rz:
Panel Point	fb	0.00	0.00	0.00	0.00	0.00	99.6977
Mid Panel fb	1	0.00	0.00	0.00	0.00	0.00	TC Shear Stress:
Fillers		0	0	0	0	0	15,894.08
Panel Point	Stress	6,966.64	6,966.64	29,201.34	7,013.28	7,013.28	BC Shear Stress: 23,068.22
Mid Panel St	tress	0.1752	0.1781	0.7033	0.1797	0.1763	

Web Design							
Member	Web Tension	Allow Tension	Web Comp	Allow Comp	Weld	Qty	Material
W2	70,990.55	78,675.84	0.00	48,504.91	13.7 x 0.232	2	28 = 2 x 2 x .232
W3	0.00	106,875.00	72,995.38	77,397.71	13.1 x 0.250	2	2F = 2 1/2 x 2 1/2 x .250
W4	48,596.41	49,639.59	0.00	28,714.26	15.3 x 0.143	2	21 = 2 x 2 x .143
W5	0.00	84,375.00	48,596.41	50,481.05	11.6 x 0.188	2	29 = 2 x 2 x .250
W6	24,317.33	24,819.80	0.00	7,514.77	7.6 x 0.143	1	21 = 2 x 2 x .143
W7	0.00	49,639.59	24,317.33	28,714.26	7.6 x 0.143	2	21 = 2 x 2 x .143
W8	21,253.75	21,796.88	0.00	6,639.32	7.6 x 0.125	1	20 = 2 x 2 x .125
W8	0.00	43,593.75	21,253.75	24,253.75	7.6 x 0.125	2	20 = 2 x 2 x .125
W7	0.00	43,593.75	24,240.81	24,253.75	8.7 x 0.125	2	20 = 2 x 2 x .125
W6	24,240.82	24,819.80	0.00	7,514.77	7.6 x 0.143	1	$21 = 2 \times 2 \times .143$
W5	0.00	84,375.00	48,519.89	50,481.05	11.6 x 0.188	2	29 = 2 x 2 x .250
W4	48,519.89	49,639.59	0.00	28,714.26	15.2 x 0.143	2	$21 = 2 \times 2 \times .143$
W3	0.00	106,875.00	72,918.75	77,397.71	13.1 x 0.250	2	2F = 2 1/2 x 2 1/2 x .250
W2	71,147.88	78,675.84	0.00	48,351.50	13.8 x 0.232	2	28 = 2 x 2 x .232
V1	0.00	14,180.35	3,860.45	4,390.58	2.0 x 0.109	1	1C = 1 1/2 x 1 1/2 x .109
V2	0.00	14,180.35	3,860.46	4,390.58	2.0 x 0.109	1	1C = 1 1/2 x 1 1/2 x .109



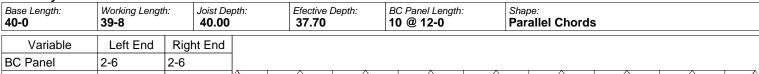
Job Number: Job Name: LRFD - SJI SUBMITTAL

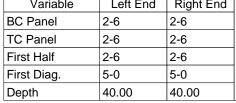
Joist Description.

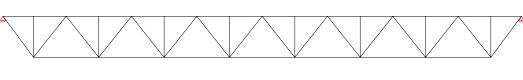
Joist Description:
Deep Long Span 40G8N18F

Date Run: 10/8/2006 Mark: G03

Geometry







Loads

Point Load at Diagonals (lbs) 18,000.00

Stress Analysis Summary

Oli 633 Allaly	Director Analysis Cultilliary											
Int. Panel TC: 30.00	Max Panel BC: 60.00	Reaction LE: 72,000.00	1000000000000000000000000000000000000		inimum Shear: 8,000.00	Max TC Comp.: 218,668.17	Max BC 7					
Member	TC Tension	TC Compresion	BC Tension	BC Compresion	n Web Tension	Web Comp.	Web Length	PP Dist.				
W2	0.00	46,789.26	0.00	0.0	78,474.41	0.00	46.96	0-2				
W3	0.00	46,789.26	96,920.59	0.0	0.00	80,511.80	48.18	2-6				
W4	0.00	132,728.70	96,920.59	0.0	57,508.43	0.00	48.18	5-0				
W5	0.00	132,728.70	168,536.80	0.0	0.00	57,508.44	48.18	7-6				
W6	0.00	190,021.67	168,536.80	0.0	34,505.06	0.00	48.18	10-0				
W7	0.00	190,021.67	211,506.53	0.0	0.00	34,505.07	48.18	12-6				
W8	0.00	218,668.16	211,506.53	0.0	23,003.38	0.00	48.18	15-0				
W9	0.00	218,668.16	225,829.77	0.0	0.00	23,003.38	48.18	17-6				
W9	0.00	218,668.17	225,829.77	0.0	0.00	23,003.38	48.18	20-0				
W8	0.00	218,668.17	211,506.55	0.0	23,003.38	0.00	48.18	22-6				
W7	0.00	190,021.67	211,506.55	0.0	0.00	34,505.06	48.18	25-0				
W6	0.00	190,021.67	168,536.81	0.0	34,505.07	0.00	48.18	27-6				
W5	0.00	132,728.70	168,536.81	0.0	0.00	57,508.44	48.18	30-0				
W4	0.00	132,728.70	96,920.59	0.0	57,508.43	0.00	48.18	32-6				
W3	0.00	46,789.25	96,920.59	0.0	0.00	80,511.81	48.18	35-0				
W2	0.00	46,789.25	0.00	0.0	78,474.41	0.00	46.96	37-6				

Member	Position	Max Tension	Max Comp.	Length
V1	End Panel	0.00	4,373.37	37.70
V2	Interior	0.00	4,373.37	37.70



Job Name: LRFD - SJI SUBMITTAL

Joist Description:
Deep Long Span 40G8N18F

Date Run: 10/8/2006

Mark: G03

Chord Properties

Chord	Area	Rx	Rz	Ryy	Υ	lx	Q	Material
TC	3.3050	1.2262	0.7847	2.0643	1.1607	4.9690	1.0000	$44 = 4 \times 4 \times .437$
ВС	2.8594	1.2346	0.7876	2.0514	1.1383	4.3586	1.0000	42 = 4 x 4 x .375

Axial and Bending Analysis

K: 1.00	Fy: 50,000.00	Fb: 45,000.00	Mom of Inertia: 4,367.36	LL 240: 3,921.33	LL 240: 3,921.33	Max Bridg T 29-2 7/8	Max Bridg BC: 41-0 3/8
Top C	hord Check	End Panel LE	First Panel LE	Interior Panel	First Panel RE	End Panel RE	Gap Between Chords:
Length		28.00	30.00	30.00	30.00	28.00	1.00
Bending Loa	ad	0.00	0.00	0.00	0.00	0.00	Min Weld Len 2X: 1.5708
Axial Load		46,789.26	46,789.26	218,668.17	46,789.26	46,789.26	Max Load Fillers TC:
fa		7,078.49	7,078.49	33,081.11	7,078.49	7,078.49	279,635.63
Maximum K	L/r	35.68	38.23	29.07	38.23	35.68	Max Load no Fillers TC:
Fa		40,999.43	40,438.51	42,304.54	40,438.51	40,999.43	267,301.06
F'e		286,371.81	249,461.66	249,461.67	249,461.66	286,371.81	TC OAL/Ryy: 230.5833
Cm		0.9926	0.9915	0.9470	0.9915	0.9926	BC Stress:
Panel Point	Moment	0.00	0.00	0.00	0.00	0.00	39,489.36
Mid Panel M	loment	0.00	0.00	0.00	0.00	0.00	BC L/Rz:
Panel Point	fb	0.00	0.00	0.00	0.00	0.00	76.1835
Mid Panel fb)	0.00	0.00	0.00	0.00	0.00	TC Shear Stress:
Fillers		0	0	0	0	0	18,415.25
Panel Point	Stress	7,078.49	7,078.49	33,081.11	7,078.49	7,078.49	BC Shear Stress: 21,452.54
Mid Panel S	tress	0.1726	0.1750	0.7820	0.1750	0.1726	

web besign							
Member	Web Tension	Allow Tension	Web Comp	Allow Comp	Weld	Qty	Material
W2	78,474.41	78,675.84	0.00	51,100.27	15.2 x 0.232	2	28 = 2 x 2 x .232
W3	0.00	117,942.38	80,511.80	90,894.48	15.9 x 0.227	2	$31 = 3 \times 3 \times .227$
W4	57,508.43	60,572.16	0.00	38,470.03	14.7 x 0.176	2	24 = 2 x 2 x .176
W5	0.00	91,355.04	57,508.44	67,220.24	13.8 x 0.188	2	2C = 2 1/2 x 2 1/2 x .212
W6	34,505.06	35,008.88	0.00	11,689.49	8.3 x 0.188	1	26 = 2 x 2 x .205
W7	0.00	56,288.79	34,505.07	35,236.38	9.5 x 0.163	2	23 = 2 x 2 x .163
W8	23,003.38	24,819.80	0.00	8,432.13	7.2 x 0.143	1	21 = 2 x 2 x .143
W9	0.00	43,593.75	23,003.38	25,346.71	8.3 x 0.125	2	20 = 2 x 2 x .125
W9	0.00	43,593.75	23,003.38	25,346.71	8.3 x 0.125	2	20 = 2 x 2 x .125
W8	23,003.38	24,819.80	0.00	8,432.13	7.2 x 0.143	1	21 = 2 x 2 x .143
W7	0.00	56,288.79	34,505.06	35,236.38	9.5 x 0.163	2	23 = 2 x 2 x .163
W6	34,505.07	35,008.88	0.00	11,689.49	8.3 x 0.188	1	26 = 2 x 2 x .205
W5	0.00	91,355.04	57,508.44	67,220.24	13.8 x 0.188	2	2C = 2 1/2 x 2 1/2 x .212
W4	57,508.43	60,572.16	0.00	38,470.03	14.7 x 0.176	2	24 = 2 x 2 x .176
W3	0.00	117,942.38	80,511.81	90,894.48	15.9 x 0.227	2	31 = 3 x 3 x .227
W2	78,474.41	78,675.84	0.00	51,100.27	15.2 x 0.232	2	28 = 2 x 2 x .232
V1	0.00	14,180.35	4,373.37	4,422.44	2.0 x 0.109	1	1C = 1 1/2 x 1 1/2 x .109
V2	0.00	14,180.35	4,373.37	4,422.44	2.0 x 0.109	1	1C = 1 1/2 x 1 1/2 x .109



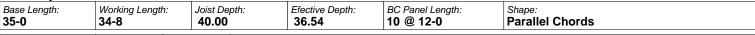
Job Number: Job Name: LRFD - SJI SUBMITTAL

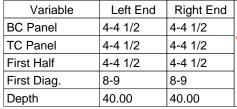
Joist Description:

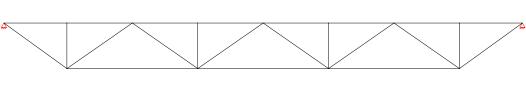
JUAREZ, Deep Long Span 40G4N84F

Date Run: 10/8/2006 Mark: G04

Geometry







Loads

Point Load at Diagonals (lbs) 84,000.00

Stress Analysis Summary

Int. Panel TC: 52.50	Max Panel BC: 105.00	Reaction LE: 168,000.00	Reaction 168,000		linimum Shear: 2,000.00	Max TC Comp.: 415,514.81	Max BC 7	
Member	TC Tension	TC Compresion	BC Tension	BC Compresio	n Web Tension	Web Comp.	Web Length	PP Dist.
W2	0.00	174,136.91	0.00	0.0	0 214,941.05	0.00	62.33	0-2
W3	0.00	174,136.91	355,170.31	0.0	0.00	220,565.41	63.96	4-4 1/2
W4	0.00	415,514.78	355,170.31	0.0	0 73,521.80	0.00	63.96	8-9
W5	0.00	415,514.78	475,859.25	0.0	0.00	73,521.80	63.96	13-1 1/2
W5	0.00	415,514.81	475,859.25	0.0	0.00	73,521.80	63.96	17-6
W4	0.00	415,514.81	355,170.31	0.0	0 73,521.80	0.00	63.96	21-10 1/2
W3	0.00	174,136.91	355,170.31	0.0	0.00	220,565.39	63.96	26-3
W2	0.00	174,136.91	0.00	0.0	0 214,941.06	0.00	62.33	30-7 1/2

Member	Position	Max Tension	Max Comp.	Length
V1	End Panel	0.03	8,310.30	36.54
V2	Interior	0.00	8,310.30	36.54



Job Number: **00-0002**

Job Name: LRFD - SJI SUBMITTAL

Date Run: 10/8/2006

Location: JUAREZ,

Joist Description:
Deep Long Span 40G4N84F

Mark: G04

Chord	Area	Rx	Rz	Ryy	Y	lx	Q	Material	
TC	8.4375	1.8267	1.1734	2.9176	1.7750	28.1549	1.0000	$67 = 6 \times 6 \times .750$	
ВС	5.7500	1.8607	1.1847	2.8698	1.6848	19.9078	0.9607	$63 = 6 \times 6 \times .500$	

Axial and Bending Analysis

K: Fy:

K: Fy: 50,000.00	Fb: 45,000.00	Mom of Inertia: 9,179.68	LL 240: 12,347.62	LL 240: 12,347.62	Max Bridg 7 41-4	Max Bridg BC: 57-4 3/4
Top Chord Check	End Panel LE	First Panel LE	Interior Panel	First Panel RE	End Panel RE	Gap Between Chords:
Length	50.50	52.50	52.50	52.50	50.50	1.00
Bending Load	0.00	0.00	0.00	0.00	0.00	Min Weld Len 2X: 2.9848
Axial Load	174,136.91	174,136.91	415,514.81	174,136.91	174,136.91	Max Load Fillers TC:
fa	10,319.22	10,319.22	24,623.10	10,319.22	10,319.22	690,763.56
Maximum K L/r	43.04	44.74	35.99	44.74	43.04	
Fa	39,300.39	38,872.81	40,934.14	38,872.81	39,300.39	655,978.75
F'e	195,392.70	180,789.20	180,789.20	180,789.20	195,392.70	TC OAL/Ryy: 142.5820
Cm	0.9842	0.9829	0.9455	0.9829	0.9842	BC Stress:
Panel Point Moment	0.00	0.00	0.00	0.00	0.00	41,379.07
Mid Panel Moment	0.00	0.00	0.00	0.00	0.00	
Panel Point fb	0.00	0.00	0.00	0.00	0.00	88.6263
Mid Panel fb	0.00	0.00	0.00	0.00	0.00	
Fillers	0	0	0	0	0	14,992.40 BC Shear Stress:
Panel Point Stress	10,319.22	10,319.22	24,623.10	10,319.22	10,319.22	22,426.61
Mid Panel Stress	0.2626	0.2655	0.6015	0.2655	0.2626	

Web Design							
Member	Web Tension	Allow Tension	Web Comp	Allow Comp	Weld	Qty	Material
W2	214,941.05	215,879.05	0.00	169,953.78	30.9 x 0.312	2	$41 = 4 \times 4 \times .312$
W3	0.00	297,452.78	220,565.41	243,783.27	22.7 x 0.437	2	$44 = 4 \times 4 \times .437$
W4	73,521.80	78,675.84	0.00	35,329.62	17.6 x 0.188	2	28 = 2 x 2 x .232
W5	0.00	117,942.38	73,521.80	79,262.14	17.6 x 0.188	2	$31 = 3 \times 3 \times .227$
W5	0.00	117,942.38	73,521.80	79,262.14	17.6 x 0.188	2	$31 = 3 \times 3 \times .227$
W4	73,521.80	78,675.84	0.00	35,329.62	17.6 x 0.188	2	$28 = 2 \times 2 \times .232$
W3	0.00	297,452.78	220,565.39	243,783.27	22.7 x 0.437	2	$44 = 4 \times 4 \times .437$
W2	214,941.06	215,879.05	0.00	169,953.78	30.9 x 0.312	2	41 = 4 x 4 x .312
V1	0.03	21,796.88	8,310.30	10,861.48	3.0 x 0.125	1	20 = 2 x 2 x .125
V2	0.00	21,796.88	8,310.30	10,861.48	3.0 x 0.125	1	20 = 2 x 2 x .125



Job Name: LRFD - SJI SUBMITTAL

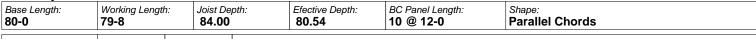
Joist Description:

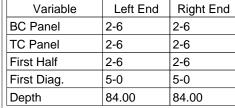
Deep Long Span 84G16N18F

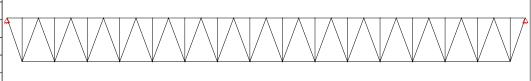
Date Run: 10/8/2006 Mark:

G05

Geometry







Loads

Point Load at Diagonals (lbs) 18,000.00

Stress Analysis Summary

Int. Panel TC: 30.00	Max Panel BC: 60.00	Reaction LE: 143,999.98	Reaction 144,00 0		imum Shear: 000.00	Max TC Comp.: 422,397.72	Max BC 7 425,75 0	
Member	TC Tension	TC Compresion	BC Tension	BC Compresion	Web Tension	Web Comp.	Web Length	PP Dist.
W2	0.00	46,933.08	0.00	0.00	142,925.53	0.00	85.27	0-2
W3	0.00	46,933.08	97,218.52	0.00	0.00	144,061.20	85.95	2-6
W4	0.00	140,799.23	97,218.52	0.00	124,853.05	0.00	85.95	5-0
W5	0.00	140,799.23	184,379.92	0.00	0.00	124,853.04	85.95	7-6
W6	0.00	221,255.97	184,379.92	0.00	105,644.89	0.00	85.95	10-0
W7	0.00	221,255.97	258,131.92	0.00	0.00	105,644.88	85.95	12-6
W8	0.00	288,303.22	258,131.92	0.00	86,436.71	0.00	85.95	15-0
W9	0.00	288,303.22	318,474.41	0.00	0.00	86,436.73	85.95	17-6
W10	0.00	341,941.00	318,474.41	0.00	67,228.55	0.00	85.95	20-0
W11	0.00	341,941.00	365,407.56	0.00	0.00	67,228.55	85.95	22-6
W12	0.00	382,169.34	365,407.56	0.00	48,020.40	0.00	85.95	25-0
W13	0.00	382,169.34	398,931.22	0.00	0.00	48,020.40	85.95	27-6
W14	0.00	408,988.31	398,931.22	0.00	38,416.31	0.00	85.95	30-0
W15	0.00	408,988.31	419,045.34	0.00	0.00	38,416.31	85.95	32-6
W16	0.00	422,397.72	419,045.34	0.00	38,416.31	0.00	85.95	35-0
W17	0.00	422,397.72	425,750.09	0.00	0.00	38,416.31	85.95	37-6
W17	0.00	422,397.72	425,750.09	0.00	0.00	38,416.31	85.95	40-0
W16	0.00	422,397.72	419,045.38	0.00	38,416.31	0.00	85.95	42-6
W15	0.00	408,988.22	419,045.38	0.00	0.00	38,416.31	85.95	45-0
W14	0.00	408,988.22	398,931.19	0.00	38,416.31	0.00	85.95	47-6
W13	0.00	382,169.38	398,931.19	0.00	0.00	48,020.41	85.95	50-0
W12	0.00	382,169.38	365,407.53	0.00	48,020.40	0.00	85.95	52-6
W11	0.00	341,940.97	365,407.53	0.00	0.00	67,228.57	85.95	55-0
W10	0.00	341,940.97	318,474.47	0.00	67,228.57	0.00	85.95	57-6
W9	0.00	288,303.19	318,474.47	0.00	0.00	86,436.72	85.95	60-0
W8	0.00	288,303.19	258,131.91	0.00	86,436.72	0.00	85.95	62-6
W7	0.00	221,255.92	258,131.91	0.00	0.00	105,644.88	85.95	65-0
W6	0.00	221,255.92	184,379.95	0.00	105,644.88	0.00	85.95	67-6
W5	0.00	140,799.22	184,379.95	0.00	0.00	124,853.03	85.95	70-0
W4	0.00	140,799.22	97,218.52	0.00	124,853.02	0.00	85.95	72-6
W3	0.00	46,933.07	97,218.52	0.00	0.00	144,061.17	85.95	75-0
W2	0.00	46,933.07	0.00	0.00	142,925.55	0.00	85.27	77-6

	Member	Position	Max Tension	Max Comp.	Length
	V1	End Panel	0.00	8,447.96	80.54
Į	V2	Interior	0.00	8,447.96	80.54



Job Number: **00-0002** Job Name: LRFD - SJI SUBMITTAL

Joist Description:
Deep Long Span 84G16N18F

Date Run: 10/8/2006 Mark: G05

Chord	Area	Rx	Rz	Ryy	Y	lx	Q	Material
TC	8.4375	1.8267	1.1734	2.9176	1.7750	28.1549	1.0000	$67 = 6 \times 6 \times .750$
ВС	5.7500	1.8607	1.1847	2.8698	1.6848	19.9078	0.9607	$63 = 6 \times 6 \times .500$

Axial and Bending Analysis K: Fy:

7 totial alla Dollali	ig / inaly old						
	Fy: 50,000.00	Fb: 45,000.00	Mom of Inertia: 44,412.13	LL 240: 4,922.24	LL 240: 4,922.24	Max Bridg 7 41-4	Max Bridg BC: 57-4 3/4
Top Chord	Check	End Panel LE	First Panel LE	Interior Panel	First Panel RE	End Panel RE	Gap Between Chords:
Length		28.00	30.00	30.00	30.00	28.00	1.00
Bending Load		0.00	0.00	0.00	0.00	0.00	Min Weld Len 2X: 3.0342
Axial Load		46,933.08	46,933.08	422,397.72	46,933.07	46,933.07	Max Load Fillers TC:
fa		2,781.22	2,781.22	25,030.98	2,781.22	2,781.22	736,253.06
Maximum K L/r		23.86	25.57	20.56	25.57	23.86	Max Load no Fillers TC:
Fa		43,164.96	42,899.88	43,629.81	42,899.88	43,164.96	723,935.50
F'e		635,587.06	553,666.94	553,666.94	553,666.94	635,587.06	TC OAL/Ryy: 327.6645
Cm		0.9987	0.9985	0.9819	0.9985	0.9987	BC Stress:
Panel Point Mom	ent	0.00	0.00	0.00	0.00	0.00	37,021.75
Mid Panel Mome	nt	0.00	0.00	0.00	0.00	0.00	BC L/Rz:
Panel Point fb		0.00	0.00	0.00	0.00	0.00	50.6436
Mid Panel fb		0.00	0.00	0.00	0.00	0.00	TC Shear Stress:
Fillers		0	0	0	0	0	15,073.82
Panel Point Stres	SS	2,781.22	2,781.22	25,030.98	2,781.22	2,781.22	BC Shear Stress: 22,605.98
Mid Panel Stress		0.0644	0.0648	0.5737	0.0648	0.0644	

	Gap Between Chords: 1.00
	Min Weld Len 2X: 3.0342
	Max Load Fillers TC: 736,253.06
	Max Load no Fillers TC: 723,935.50
	TC OAL/Ryy: 327.6645
	BC Stress: 37,021.75
1	

Web Design									
Member	Web Tension	Allow Tension	Web Comp	Allow Comp	Weld	Qty	Material		
W2	142,925.53	144,633.50	0.00	77,807.81	22.8 x 0.281	2	$35 = 3 \times 3 \times .281$		
W3	0.00	215,879.05	144,061.20	145,585.80	20.7 x 0.312	2	$41 = 4 \times 4 \times .312$		
W4	124,853.05	129,375.00	0.00	68,248.85	22.4 x 0.250	2	33 = 3 x 3 x .250		
W5	0.00	206,069.77	124,853.04	129,482.69	16.3 x 0.344	2	3F = 3 1/2 x 3 1/2 x .344		
W6	105,644.89	106,875.00	0.00	42,927.73	25.3 x 0.188	2	2F = 2 1/2 x 2 1/2 x .250		
W7	0.00	187,799.05	105,644.88	117,512.36	25.3 x 0.188	2	3E = 3 1/2 x 3 1/2 x .312		
W8	86,436.71	91,355.04	0.00	37,009.74	20.7 x 0.188	2	2C = 2 1/2 x 2 1/2 x .212		
W9	0.00	187,799.05	86,436.73	117,512.36	20.7 x 0.188	2	3E = 3 1/2 x 3 1/2 x .312		
W10	67,228.55	70,017.75	0.00	17,993.16	16.1 x 0.188	2	26 = 2 x 2 x .205		
W11	0.00	129,375.00	67,228.55	68,248.85	16.1 x 0.188	2	$33 = 3 \times 3 \times .250$		
W12	48,020.40	49,639.59	0.00	13,120.17	15.1 x 0.143	2	21 = 2 x 2 x .143		
W13	0.00	117,942.38	48,020.40	61,425.60	11.5 x 0.188	2	31 = 3 x 3 x .227		
W14	38,416.31	43,593.75	0.00	11,619.17	13.8 x 0.125	2	20 = 2 x 2 x .125		
W15	0.00	98,739.00	38,416.31	39,905.32	9.2 x 0.188	2	2E = 2 1/2 x 2 1/2 x .230		
W16	38,416.31	43,593.75	0.00	11,619.17	13.8 x 0.125	2	20 = 2 x 2 x .125		
W17	0.00	98,739.00	38,416.31	39,905.32	9.2 x 0.188	2	2E = 2 1/2 x 2 1/2 x .230		
W17	0.00	98,739.00	38,416.31	39,905.32	9.2 x 0.188	2	2E = 2 1/2 x 2 1/2 x .230		
W16	38,416.31	43,593.75	0.00	11,619.17	13.8 x 0.125	2	20 = 2 x 2 x .125		
W15	0.00	98,739.00	38,416.31	39,905.32	9.2 x 0.188	2	2E = 2 1/2 x 2 1/2 x .230		
W14	38,416.31	43,593.75	0.00	11,619.17	13.8 x 0.125	2	20 = 2 x 2 x .125		
W13	0.00	117,942.38	48,020.41	61,425.60	11.5 x 0.188	2	31 = 3 x 3 x .227		
W12	48,020.40	49,639.59	0.00	13,120.17	15.1 x 0.143	2	21 = 2 x 2 x .143		
W11	0.00	129,375.00	67,228.57	68,248.85	16.1 x 0.188	2	$33 = 3 \times 3 \times .250$		
W10	67,228.57	70,017.75	0.00	17,993.16	16.1 x 0.188	2	26 = 2 x 2 x .205		
W9	0.00	187,799.05	86,436.72	117,512.36	20.7 x 0.188	2	3E = 3 1/2 x 3 1/2 x .312		
W8	86,436.72	91,355.04	0.00	37,009.74	20.7 x 0.188	2	2C = 2 1/2 x 2 1/2 x .212		
W7	0.00	187,799.05	105,644.88	117,512.36	25.3 x 0.188	2	3E = 3 1/2 x 3 1/2 x .312		



	STRES	S ANALYSIS - PAGE 1		
Job Number: 00-0002	Job Name: LRFD - SJI SUBMITTAL		Date 1	Run: /2006
Location: JUAREZ,		Joist Description: Deep Long Span 8K1		Mark: J01

Geometry

Base Length: 14-0	Working Length: Joist Dep 8.00			Efective Depth: 7.23	BC Panel Length: 10 @ 12-0	Shape: Parallel Chords
Variable	Left End	Right End				
BC Panel	2-3	2-3				
TC Panel	1-5 1/2	1-5 1/2	A			
First Half	0-9 1/2	0-9 1/2				
First Diag.	3-0 1/2	3-0 1/2				
Depth	8.00	8.00				

Loads

Uniform Load in TC (plf)	489.40 Live Load (plf)	286.40
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Stress Analysis Summary

Int. Panel TC: Max Panel BC:

Int. Panel TC: 19.00	Max Panel BC: 19.00	Reaction LE: 3,146.07			nimum Shear: 36.52	Max TC Comp.: 17,610.84	Max BC 1	
Member	TC Tension	TC Compresion	BC Tension	BC Compresion	Web Tension	Web Comp.	Web Length	PP Dist.
W2	0.00	9,855.70	0.00	0.00	10,259.14	0.00	26.02	0-2
V1S	0.00	8,985.61	0.00	0.00	0.00	1,181.25	11.94	1-5 1/2
W3	0.00	8,985.61	11,860.69	0.00	0.00	3,612.28	11.94	2-3
W4	0.00	13,777.40	11,860.69	0.00	2,408.19	0.00	11.94	3-0 1/2
W5	0.00	13,777.40	15,694.12	0.00	0.00	2,408.19	11.94	3-10
W6	0.00	16,652.48	15,694.12	0.00	1,299.15	0.00	11.94	4-7 1/2
W7	0.00	16,652.48	17,610.84	0.00	0.00	1,299.15	11.94	5-5
W8	0.00	17,610.84	17,610.84	0.00	1,299.15	1,299.15	11.94	6-2 1/2

^{*} Symmetrical Joist



Job Number: **00-0002**

Fb:

Job Name: LRFD - SJI SUBMITTAL

Mom of Inertia:

Joist Description:
Deep Long Span 8K1

LL 240:

Max Bridg TC:

Date Run: 10/8/2006 Mark: J01

Max Bridg BC:

Chord Properties

Chord	Area	Rx	Rz	Ryy	Υ	lx	Q	Material
TC	0.3151	0.4675	0.2972	0.8132	0.4154	0.0689	0.9050	1C = 1 1/2 x 1 1/2 x .109
ВС	0.2969	0.3847	0.2457	0.7200	0.3586	0.0439	1.0000	18 = 1 1/4 x 1 1/4 x .125

LL 240:

Axial and Bending Analysis

Fy:

1.00 50,000.00	45,000.00	16.08	352.94	352.94	9-9 7/8	14-4 3/4	
Top Chord Check	End Panel LE	First Panel LE	Interior Panel	First Panel RE	End Panel RE	Gap Between Chords:	
Length	15.50	19.00	19.00	19.00	15.50	0.50	
Bending Load	324.00	-	0.00	-	324.00	Min Weld Len 2X: 0.5000	
Axial Load	9,855.70	-	17,610.84	-	9,855.70	Max Load Fillers TC:	
fa	15,638.06	-	27,943.15	-	15,638.06	22,545.15	
Maximum K L/r	52.16	-	44.27	-	52.16	Max Load no Fillers TC:	
Fa	34,015.86	-	35,772.43	-	34,015.86	19,583.27	
F'e	135,824.28	-	90,392.76	-	135,824.28	TC OAL/Ryy: 201.6830	
Cm	0.9655	-	0.8763	-	0.9655	BC Stress:	
Panel Point Moment	811.81	-	0.00	-	811.81	29,660.36	
Mid Panel Moment	455.74	-	0.00	-	455.74	BC L/Rz:	
Panel Point fb	6393.59	-	0.00	-	6393.59	77.3209	
Mid Panel fb	1374.51	-	0.00	-	1374.51	TC Shear Stress: 11,706.02 BC Shear Stress: 12,328.11	
Fillers	0	-	0	-	0		
Panel Point Stress	22,031.65	-	27,943.15	-	22,031.65		
Mid Panel Stress	0.4966	-	0.7811	-	0.4966	,	

Memb	er Web Tension	Allow Tension	Web Comp	Allow Comp	Weld	Qty	Material
W2	10,259.14	12,425.24	0.00	4,733.58	2.5 x 0.185	1	R9 = round 5/8
V1S	0.00	8,835.73	1,181.25	6,214.59	2.0 x 0.027	1	R1 = round 1/2
W3	0.00	8,835.73	3,612.28	6,214.59	2.0 x 0.081	1	R1 = round 1/2
W4	2,408.19	8,835.73	0.00	6,214.59	2.0 x 0.054	1	R1 = round 1/2
W5	0.00	8,835.73	2,408.19	6,214.59	2.0 x 0.054	1	R1 = round 1/2
W6	1,299.15	8,835.73	0.00	6,214.59	2.0 x 0.029	1	R1 = round 1/2
W7	0.00	8,835.73	1,299.15	6,214.59	2.0 x 0.029	1	R1 = round 1/2
W8	1,299.15	8,835.73	1,299.15	6,214.59	2.0 x 0.029	1	R1 = round 1/2

^{*} Symmetrical Joist



	STRES	S ANALYSIS - PAGE 1		
Job Number: 00-0002	Job Name: LRFD - SJI SUBMITTAL		Date I 10/8/	Run: /2006
Location: JUAREZ,		Joist Description: Deep Long Span 10K1		Mark: J02

Geometry

Base Length:	Working Lengt	th: Joist D 10.0	•	Efective Depth: 9.23	BC Panel Length: 10 @ 12-0	Shape: Parallel Chords
Variable	Left End	Right End				
BC Panel	2-0 1/2	2-0 1/2				
TC Panel	1-3	1-3				
First Half	0-9 1/2	0-9 1/2				
First Diag.	2-10	2-10		~	v	
Depth	10.00	10.00				

Loads

Uniform Load in TC (plf) 861.00 Live Load (plf) 728.0

Int. Panel TC: 19.00	Max Panel BC: 19.00	Reaction LE: 4,911.67	Reaction 4,911.6		inimum Shear: 227.92	Max TC Comp.: 17,946.48	Max BC 1	
Member	TC Tension	TC Compresion	BC Tension	BC Compresion	n Web Tension	Web Comp.	Web Length	PP Dist.
W2	0.00	10,866.00	0.00	0.0	11,744.03	0.00	24.32	0-2
V1S	0.00	9,710.00	0.00	0.0	0.00	1,701.16	13.24	1-3
W3	0.00	9,710.00	13,141.87	0.0	0.00	4,783.94	13.24	2-0 1/2
W4	0.00	15,200.99	13,141.87	0.0	2,870.36	0.00	13.24	2-10
W5	0.00	15,200.99	17,260.11	0.0	0.00	2,870.36	13.24	3-7 1/2
W6	0.00	17,946.48	17,260.11	0.0	1,762.50	0.00	13.24	4-5
W7	0.00	17,946.48	18,632.86	0.0	0.00	1,762.50	13.24	5-2 1/2

^{*} Symmetrical Joist



Job Number: **00-0002**

Fb:

Job Name: LRFD - SJI SUBMITTAL

Mom of Inertia:

Joist Description:
Deep Long Span 10K1

LL 240:

Max Bridg TC:

Date Run: 10/8/2006 Mark: **J02**

Max Bridg BC:

Chord Properties

K:

Chord	Area	Rx	Rz	Ryy	Υ	lx	Q	Material
TC	0.3151	0.4675	0.2972	0.8132	0.4154	0.0689	0.9050	1C = 1 1/2 x 1 1/2 x .109
ВС	0.2969	0.3847	0.2457	0.7200	0.3586	0.0439	1.0000	18 = 1 1/4 x 1 1/4 x .125

LL 240:

Axial and Bending Analysis

Fy:

1.00 50,000.00	45,000.00	26.14	922.35	922.35	9-9 7/8	14-4 3/4
Top Chord Check	End Panel LE	First Panel LE	Interior Panel	First Panel RE	End Panel RE	Gap Between Chords:
Length	13.00	19.00	19.00	19.00	13.00	0.50
Bending Load	550.00	-	0.00	-	550.00	Min Weld Len 2X: 0.5000
Axial Load	10,866.00	-	17,946.48	-	10,866.00	Max Load Fillers TC:
fa	17,241.10	-	28,475.72	-	17,241.10	22,545.15
Maximum K L/r	43.75	-	44.27	-	43.75	Max Load no Fillers TC:
Fa	35,881.57	-	35,772.43	-	35,881.57	19,583.27
F'e	193,087.47	-	90,392.76	-	193,087.47	TC OAL/Ryy: 172.1684
Cm	0.9732	-	0.8740	-	0.9732	BC Stress:
Panel Point Moment	1197.93	-	0.00	-	1197.93	31,381.65
Mid Panel Moment	461.90	-	0.00	-	461.90	BC L/Rz:
Panel Point fb	9434.55	-	0.00	-	9434.55	77.3209
Mid Panel fb	1393.09	-	0.00	-	1393.09	TC Shear Stress:
Fillers	0	-	0	-	0	16,123.65
Panel Point Stress	26,675.65	-	28,475.72	-	26,675.65	BC Shear Stress: 16,941.52
Mid Panel Stress	0.5171	-	0.7960	-	0.5171	

Member	Web Tension	Allow Tension	Web Comp	Allow Comp	Weld	Qty	Material
W2	11,744.03	12,425.24	0.00	4,633.71	2.9 x 0.185	1	R9 = round 5/8
V1S	0.00	8,835.73	1,701.16	5,323.06	2.0 x 0.038	1	R1 = round 1/2
W3	0.00	8,835.73	4,783.94	5,323.06	2.0 x 0.107	1	R1 = round 1/2
W4	2,870.36	8,835.73	0.00	5,323.06	2.0 x 0.064	1	R1 = round 1/2
W5	0.00	8,835.73	2,870.36	5,323.06	2.0 x 0.064	1	R1 = round 1/2
W6	1,762.50	8,835.73	0.00	5,323.06	2.0 x 0.040	1	R1 = round 1/2
W7	0.00	8,835.73	1,762.50	5,323.06	2.0 x 0.040	1	R1 = round 1/2

^{*} Symmetrical Joist



Job Number: Job Name: LRFD - SJI SUBMITTAL

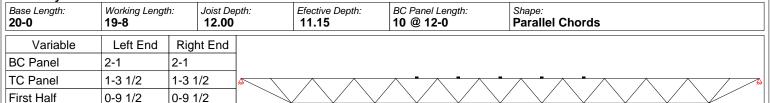
Joist Description:

Deep Long Span 12K5

Mark: J03

Date Run: 10/8/2006

Geometry



Depth Loads

First Diag.

Uniform Load in TC (plf)	618.60	Live Load (plf)	368.00
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Stress Analysis Summary

2-10 1/2

12.00

2-10 1/2

12.00

Int. Panel TC: 19.00	Max Panel BC: 19.00	Reaction LE: 5,730.87	Reaction 5,730.8	I	ninimum Shear: ,432.72	Max TC Comp.: 30,120.42		Max BC Tension 30,120.42	
Member	TC Tension	TC Compresion	BC Tension	BC Compresion	n Web Tension	Web Comp.	Web Length	PP Dist.	
W2	0.00	11,142.41	0.00	0.0	12,383.30	0.00	25.56	0-2	
V1S	0.00	10,470.16	0.00	0.0	0.00	1,187.31	14.65	1-3 1/2	
W3	0.00	10,470.16	14,400.21	0.0	0.00	6,060.76	14.65	2-1	
W4	0.00	17,544.25	14,400.21	0.0	4,848.61	0.00	14.65	2-10 1/2	
W5	0.00	17,544.25	20,688.30	0.0	0.00	4,848.61	14.65	3-8	
W6	0.00	23,046.33	20,688.30	0.0	3,636.45	0.00	14.65	4-5 1/2	
W7	0.00	23,046.33	25,404.36	0.0	0.00	3,636.45	14.65	5-3	
W8	0.00	26,976.38	25,404.36	0.0	2,424.30	0.00	14.65	6-0 1/2	
W9	0.00	26,976.38	28,548.40	0.0	0.00	2,424.30	14.65	6-10	
W10	0.00	29,334.41	28,548.40	0.0	1,882.02	0.00	14.65	7-7 1/2	
W11	0.00	29,334.41	30,120.42	0.0	0.00	1,882.02	14.65	8-5	
W12	0.00	30,120.42	30,120.42	0.0	1,882.02	1,882.02	14.65	9-2 1/2	

^{*} Symmetrical Joist



Job Number: Job Nar 00-0002 LRFD

Job Name: LRFD - SJI SUBMITTAL

Mom of Inertia:

Date Run: 10/8/2006

Max Bridg TC:

Location: JUAREZ,

Fb:

Joist Description:
Deep Long Span 12K5

LL 240:

Mark: J03

Max Bridg BC:

Chord	Area	Rx	Rz	Ryy	Υ	lx	Q	Material
TC	0.3950	0.4634	0.2955	0.8195	0.4259	0.0848	0.9964	1G = 1 1/2 x 1 1/2 x .138
ВС	0.3594	0.4652	0.2962	0.8166	0.4212	0.0778	0.9607	1E = 1 1/2 x 1 1/2 x .125

LL 240:

Axial and Bending Analysis

Fy:

1.00 50,000.00	45,000.00	46.97	346.05	346.05	9-10 7/8	16-4
Top Chord Check	End Panel LE	First Panel LE	Interior Panel	First Panel RE	End Panel RE	Gap Between Chords:
Length	13.50	19.00	19.00	19.00	13.50	0.50
Bending Load	409.00	-	0.00	-	409.00	Min Weld Len 2X: 0.5000
Axial Load	11,142.41	-	30,120.42	-	11,142.41	Max Load Fillers TC:
fa	14,105.88	-	38,131.36	-	14,105.88	30,773.67
Maximum K L/r	45.69	-	43.93	-	45.69	Max Load no Fillers TC:
Fa	38,513.41	-	38,958.35	-	38,513.41	26,206.45
F'e	175,917.20	-	88,811.40	-	175,917.20	TC OAL/Ryy: 287.9844
Cm	0.9759	-	0.8283	-	0.9759	BC Stress:
Panel Point Moment	913.43	-	0.00	-	913.43	41,906.67
Mid Panel Moment	386.91	-	0.00	-	386.91	BC L/Rz:
Panel Point fb	5785.06	-	0.00	-	5785.06	64.1486
Mid Panel fb	971.69	-	0.00	-	971.69	TC Shear Stress:
Fillers	0	-	5	-	0	14,834.69
Panel Point Stress	19,890.94	-	38,131.36	-	19,890.94	BC Shear Stress: 16,360.79
Mid Panel Stress	0.3893	-	0.9788	-	0.3893	

Member	Web Tension	Allow Tension	Web Comp	Allow Comp	Weld	Qty	Material
W2	12,383.30	12,425.24	0.00	3,976.94	3.0 x 0.185	1	R9 = round 5/8
V1S	0.00	11,182.72	1,187.31	6,669.77	2.0 x 0.027	1	R5 = round 9/16
W3	0.00	11,182.72	6,060.76	6,669.77	2.0 x 0.136	1	R5 = round 9/16
W4	4,848.61	11,182.72	0.00	6,669.77	2.0 x 0.109	1	R5 = round 9/16
W5	0.00	11,182.72	4,848.61	6,669.77	2.0 x 0.109	1	R5 = round 9/16
W6	3,636.45	8,835.73	0.00	4,593.99	2.0 x 0.082	1	R1 = round 1/2
W7	0.00	8,835.73	3,636.45	4,593.99	2.0 x 0.082	1	R1 = round 1/2
W8	2,424.30	8,835.73	0.00	4,593.99	2.0 x 0.054	1	R1 = round 1/2
W9	0.00	8,835.73	2,424.30	4,593.99	2.0 x 0.054	1	R1 = round 1/2
W10	1,882.02	8,835.73	0.00	4,593.99	2.0 x 0.042	1	R1 = round 1/2
W11	0.00	8,835.73	1,882.02	4,593.99	2.0 x 0.042	1	R1 = round 1/2
W12	1,882.02	8,835.73	1,882.02	4,593.99	2.0 x 0.042	1	R1 = round 1/2

^{*} Symmetrical Joist



	STRES	S ANALYSIS - PAGE 1		
Job Number: 00-0002	Job Name: LRFD - SJI SUBMITTAL		Date I 10/8/	Run: /2006
Location: JUAREZ,		Joist Description: Deep Long Span 14K4		Mark: J04

Geometry

Base Length: 18-0	Working Lengt	h: Joist De 14.00	•	Efective Depth: 13.16	BC Panel Length: 10 @ 12-0	Shape: Parallel Chords
Variable	Left End	Right End				
BC Panel	1-10 1/2	1-10 1/2				
TC Panel	1-1	1-1	4			
First Half	0-9 1/2	0-9 1/2			$/$ \backslash	
First Diag.	2-8	2-8			,	
Depth	14.00	14.00				

Loads

Uniform Load in TC (plf) 821.40 Live Load (plf)

Int. Panel TC:	rsis Summary Max Panel BC:	Reaction LE:	Reaction	RF. N	linimum Shear:	Max TC Comp.:	Max BC	Tension	
19.00	19.00	7,020.73	7,020.7		,755.18	27,823.48	28,277.		
Member	TC Tension	TC Compresion	BC Tension	BC Compresio	n Web Tension	Web Comp.	Web Length	PP Dist.	
W2	0.00	10,370.10	0.00	0.0	0 12,322.63	0.00	24.36	0-2	
V1S	0.00	9,652.84	0.00	0.0	0.00	1,364.48	16.23	1-1	
W3	0.00	9,652.84	13,741.23	0.0	0.00	6,984.55	16.23	1-10 1/2	
W4	0.00	16,921.09	13,741.23	0.0	5,432.43	0.00	16.23	2-8	
W5	0.00	16,921.09	20,100.95	0.0	0.00	5,432.43	16.23	3-5 1/2	
W6	0.00	22,372.29	20,100.95	0.0	0 3,880.31	0.00	16.23	4-3	
W7	0.00	22,372.29	24,643.62	0.0	0.00	3,880.31	16.23	5-0 1/2	
W8	0.00	26,006.41	24,643.62	0.0	0 2,328.18	0.00	16.23	5-10	
W9	0.00	26,006.41	27,369.21	0.0	0.00	2,328.18	16.23	6-7 1/2	
W10	0.00	27,823.48	27,369.21	0.0	0 2,164.80	0.00	16.23	7-5	
W11	0.00	27,823.48	28,277.74	0.0	0.00	2,164.80	16.23	8-2 1/2	

^{*} Symmetrical Joist



Job Number: **00-002**

Job Name: LRFD - SJI SUBMITTAL

Joist Description:
Deep Long Span 14K4

Date Run: 10/8/2006 Mark: **J04**

Chord Properties

Chord	Area	Rx	Rz	Ryy	Υ	lx	Q	Material
TC	0.3950	0.4634	0.2955	0.8195	0.4259	0.0848	0.9964	1G = 1 1/2 x 1 1/2 x .138
ВС	0.3151	0.4675	0.2972	0.8132	0.4154	0.0689	0.9050	1C = 1 1/2 x 1 1/2 x .109

Axial and Bending Analysis

K: Fy: 50,000.00	Fb: 45,000.00	Mom of Inertia: 60.85	LL 240: 618.45	LL 240: 618.45	Max Bridg T 9-10 7/8	Max Bridg BC: 16-3 1/8
Top Chord Check	End Panel LE	First Panel LE	Interior Panel	First Panel RE	End Panel RE	Gap Between Chords:
Length	11.00	19.00	19.00	19.00	11.00	0.50
Bending Load	530.00	-	0.00	-	530.00	Min Weld Len 2X: 0.5000
Axial Load	10,370.10	-	27,823.48	-	10,370.10	Max Load Fillers TC:
fa	13,128.17	-	35,223.52	-	13,128.17	30,773.67
Maximum K L/r	37.23	-	43.93	-	37.23	Max Load no Fillers TC:
Fa	40,533.13	-	38,958.35	-	40,533.13	26,206.45
F'e	264,966.22	-	88,811.40	-	264,966.22	TC OAL/Ryy: 258.6979
Cm	0.9851	-	0.8414	-	0.9851	BC Stress:
Panel Point Moment	1064.25	-	0.00	-	1064.25	44,868.35
Mid Panel Moment	241.86	-	0.00	-	241.86	BC L/Rz:
Panel Point fb	6740.28	-	0.00	-	6740.28	63.9407
Mid Panel fb	607.43	-	0.00	-	607.43	TC Shear Stress:
Fillers	0	-	2	-	0	17,366.68
Panel Point Stress	19,868.45	-	35,223.52	-	19,868.45	BC Shear Stress: 21,955.80
Mid Panel Stress	0.3379	-	0.9041	-	0.3379	

Member	Web Tension	Allow Tension	Web Comp	Allow Comp	Weld	Qty	Material
W2	12,322.63	12,425.24	0.00	4,080.59	3.0 x 0.185	1	R9 = round 5/8
V1S	0.00	13,805.83	1,364.48	7,955.24	2.0 x 0.031	1	R9 = round 5/8
W3	0.00	13,805.83	6,984.55	7,955.24	2.0 x 0.157	1	R9 = round 5/8
W4	5,432.43	13,805.83	0.00	7,955.24	2.0 x 0.122	1	R9 = round 5/8
W5	0.00	13,805.83	5,432.43	7,955.24	2.0 x 0.122	1	R9 = round 5/8
W6	3,880.31	13,805.83	0.00	7,955.24	2.0 x 0.087	1	R9 = round 5/8
W7	0.00	13,805.83	3,880.31	7,955.24	2.0 x 0.087	1	R9 = round 5/8
W8	2,328.18	8,835.73	0.00	3,733.92	2.0 x 0.052	1	R1 = round 1/2
W9	0.00	8,835.73	2,328.18	3,733.92	2.0 x 0.052	1	R1 = round 1/2
W10	2,164.80	8,835.73	0.00	3,733.92	2.0 x 0.049	1	R1 = round 1/2
W11	0.00	8,835.73	2,164.80	3,733.92	2.0 x 0.049	1	R1 = round 1/2

^{*} Symmetrical Joist



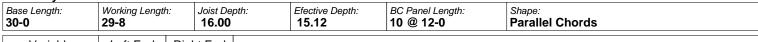
Job Number: Job Name: LRFD - SJI SUBMITTAL

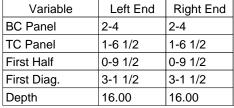
Joist Description:

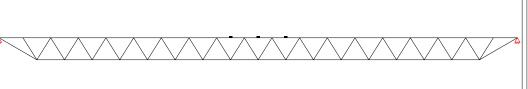
JUAREZ, Deep Long Span 16K7

Date Run: 10/8/2006 Mark: J05

Geometry







Loads

Uniform Load in TC (pit) 444.60 Live Load (pit) 241	Uniform Load in TC (plf)	444.60 Live Load (plf)	241.
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Stress Analysis Summary

Int. Panel TC: 19.00	Max Panel BC: 19.00	Reaction LE: 6,164.73	Reaction 6,164.7		nimum Shear: 5 41.18	Max TC Comp.: 36,174.19	Max BC 7 36,174.	
Member	TC Tension	TC Compresion	BC Tension	BC Compresion	Web Tension	Web Comp.	Web Length	PP Dist.
W2	0.00	10,106.73	0.00	0.00	11,692.25	0.00	30.08	0-2
V1S	0.00	9,720.59	0.00	0.00	0.00	906.83	17.86	1-6 1/2
W3	0.00	9,720.59	13,027.29	0.00	0.00	6,216.65	17.86	2-4
W4	0.00	15,920.65	13,027.29	0.00	5,439.57	0.00	17.86	3-1 1/2
W5	0.00	15,920.65	18,814.01	0.00	0.00	5,439.57	17.86	3-11
W6	0.00	21,294.04	18,814.01	0.00	4,662.49	0.00	17.86	4-8 1/2
W7	0.00	21,294.04	23,774.07	0.00	0.00	4,662.49	17.86	5-6
W8	0.00	25,840.75	23,774.07	0.00	3,885.41	0.00	17.86	6-3 1/2
W9	0.00	25,840.75	27,907.44	0.00	0.00	3,885.41	17.86	7-1
W10	0.00	29,560.79	27,907.44	0.00	3,108.33	0.00	17.86	7-10 1/2
W11	0.00	29,560.79	31,214.14	0.00	0.00	3,108.33	17.86	8-8
W12	0.00	32,454.15	31,214.14	0.00	2,331.25	0.00	17.86	9-5 1/2
W13	0.00	32,454.15	33,694.17	0.00	0.00	2,331.25	17.86	10-3
W14	0.00	34,520.84	33,694.17	0.00	1,820.01	0.00	17.86	11-0 1/2
W15	0.00	34,520.84	35,347.52	0.00	0.00	1,820.01	17.86	11-10
W16	0.00	35,760.86	35,347.52	0.00	1,820.01	0.00	17.86	12-7 1/2
W17	0.00	35,760.86	36,174.20	0.00	0.00	1,820.01	17.86	13-5
W18	0.00	36,174.19	36,174.20	0.00	1,820.01	1,820.01	17.86	14-2 1/2

^{*} Symmetrical Joist



Job Number: **00-0002**

Fb:

Job Name: LRFD - SJI SUBMITTAL

Mom of Inertia:

Joist Description:
Deep Long Span 16K7

LL 240:

Max Bridg TC:

Date Run: 10/8/2006 Mark: **J05**

Max Bridg BC:

Chord Prope	erties
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Chord	Area	Rx	Rz	Ryy	Υ	lx	Q	Material
TC	0.5260	0.4567	0.2934	0.8305	0.4436	0.1097	1.0000	1K = 1 1/2 x 1 1/2 x .187
ВС	0.4437	0.4609	0.2946	0.8235	0.4324	0.0942	1.0000	1J = 1 1/2 x 1 1/2 x .156

LL 240:

Axial and Bending Analysis

Fy:

1.00 50,000.00	45,000.00	110.31	236.75	236.75	10-0 3/8	16-5 5/8
Top Chord Check	End Panel LE	First Panel LE	Interior Panel	First Panel RE	End Panel RE	Gap Between Chords:
Length	16.50	19.00	19.00	19.00	16.50	0.50
Bending Load	296.00	-	0.00	-	296.00	Min Weld Len 2X: 0.5000
Axial Load	10,106.73	-	36,174.19	-	10,106.73	Max Load Fillers TC:
fa	9,606.59	-	34,384.09	-	9,606.59	41,264.91
Maximum K L/r	56.24	-	43.35	-	56.24	Max Load no Fillers TC:
Fa	35,707.79	-	39,222.89	-	35,707.79	34,838.47
F'e	114,426.70	-	86,295.48	-	114,426.70	TC OAL/Ryy: 428.6808
Cm	0.9748	-	0.8406	-	0.9748	BC Stress:
Panel Point Moment	791.06	-	0.00	-	791.06	40,767.56
Mid Panel Moment	490.50	-	0.00	-	490.50	BC L/Rz:
Panel Point fb	3807.70	-	0.00	-	3807.70	64.4953
Mid Panel fb	991.33	-	0.00	-	991.33	
Fillers	0	-	3	-	0	11,527.88
Panel Point Stress	13,414.29	-	34,384.09	-	13,414.29	BC Shear Stress: 13,792.64
Mid Panel Stress	0.2925	-	0.8766	-	0.2925	

rres Deerg.							
Member	Web Tension	Allow Tension	Web Comp	Allow Comp	Weld	Qty	Material
W2	11,692.25	12,425.24	0.00	2,531.36	2.8 x 0.185	1	R9 = round 5/8
V1S	0.00	13,805.83	906.83	6,815.87	2.0 x 0.020	1	R9 = round 5/8
W3	0.00	13,805.83	6,216.65	6,815.87	2.0 x 0.140	1	R9 = round 5/8
W4	5,439.57	13,805.83	0.00	6,815.87	2.0 x 0.122	1	R9 = round 5/8
W5	0.00	13,805.83	5,439.57	6,815.87	2.0 x 0.122	1	R9 = round 5/8
W6	4,662.49	13,805.83	0.00	6,815.87	2.0 x 0.105	1	R9 = round 5/8
W7	0.00	13,805.83	4,662.49	6,815.87	2.0 x 0.105	1	R9 = round 5/8
W8	3,885.41	13,805.83	0.00	6,815.87	2.0 x 0.087	1	R9 = round 5/8
W9	0.00	13,805.83	3,885.41	6,815.87	2.0 x 0.087	1	R9 = round 5/8
W10	3,108.33	13,805.83	0.00	6,815.87	2.0 x 0.070	1	R9 = round 5/8
W11	0.00	13,805.83	3,108.33	6,815.87	2.0 x 0.070	1	R9 = round 5/8
W12	2,331.25	8,835.73	0.00	2,940.80	2.0 x 0.052	1	R1 = round 1/2
W13	0.00	8,835.73	2,331.25	2,940.80	2.0 x 0.052	1	R1 = round 1/2
W14	1,820.01	8,835.73	0.00	2,940.80	2.0 x 0.041	1	R1 = round 1/2
W15	0.00	8,835.73	1,820.01	2,940.80	2.0 x 0.041	1	R1 = round 1/2
W16	1,820.01	8,835.73	0.00	2,940.80	2.0 x 0.041	1	R1 = round 1/2
W17	0.00	8,835.73	1,820.01	2,940.80	2.0 x 0.041	1	R1 = round 1/2
W18	1,820.01	8,835.73	1,820.01	2,940.80	2.0 x 0.041	1	R1 = round 1/2

^{*} Symmetrical Joist



STRESS ANALYSIS - PAGE 1								
Job Number: 00-0002	Job Name: LRFD - SJI SUBMITTAL	Date Run: 10/8/2006						
Location: JUAREZ,		Joist Description: Deep Long Span 18K3		Mark: J06				

Geometry

Working Lengt			BC Panel Length: 10 @ 12-0	Shape: Parallel Chords
Left End	Right End			
3-0	3-0			
2-7	2-7			
2-0	2-0			
5-0	5-0			
18.00	18.00			
	29-8 Left End 3-0 2-7 2-0 5-0	29-8 Right End 3-0 3-0 2-7 2-7 2-0 2-0 5-0 5-0	29-8 18.00 17.16 Left End Right End 3-0 3-0 2-7 2-0 2-0 5-0 5-0	Left End Right End 3-0 3-0 2-7 2-7 2-0 2-0 5-0 5-0

Loads

Uniform Load in TC (plf)	308.80 Live Load (olf) 196.80

Stress Analysis Summary

Int. Panel TC: Max Panel BC:

Oti Coo / tilal	olo Gallillai y								
Int. Panel TC: 24.00	Max Panel BC: 48.00	Reaction LE: 4,343.20			inimum Shear: 085.80	Max TC Comp.: 22,521.40		Max BC Tension 22,111.97	
Member	TC Tension	TC Compresion	BC Tension	BC Compresion	Web Tension	Web Comp.	Web Length	PP Dist.	
W2	0.00	7,902.82	0.00	0.00	8,852.68	0.00	38.09	0-2	
V1S	0.00	7,696.68	0.00	0.00	0.00	849.62	17.88	2-7	
W3	0.00	7,696.68	12,285.69	0.00	0.00	5,641.74	29.51	3-0	
W4	0.00	15,970.55	12,285.69	0.00	4,530.17	0.00	29.51	5-0	
W5	0.00	15,970.55	18,836.55	0.00	0.00	3,523.47	29.51	7-0	
W6	0.00	20,883.69	18,836.55	0.00	2,516.76	0.00	29.51	9-0	
W7	0.00	20,883.69	22,111.97	0.00	0.00	1,866.60	29.51	11-0	
W8	0.00	22,521.40	22,111.97	0.00	1,866.60	0.00	29.51	13-0	

^{*} Symmetrical Joist

L	Member	Position	Max Tension	Max Comp.	Length
	V2	Interior	0.00	698.21	17.16



Job Number: **00-0002**

Job Name: LRFD - SJI SUBMITTAL

Joist Description:
Deep Long Span 18K3

Date Run: 10/8/2006 Mark: **J06**

Chord Prope	erties
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Chord	Area	Rx	Rz	Ryy	Υ	lx	Q	Material
TC	0.3594	0.4652	0.2962	1.0320	0.4212	0.0778	0.9607	1E = 1 1/2 x 1 1/2 x .125
ВС	0.3151	0.4675	0.2972	1.0278	0.4154	0.0689	0.9050	1C = 1 1/2 x 1 1/2 x .109

Axial and Bending Analysis

K: Fy:

K: Fy: 50,0	1.	Fb: 45,000.00	Mom of Inertia: 99.07	LL 240: 212.62	LL 240: 212.62	Max Bridg T 12-5 5/8	Max Bridg BC: 20-6 5/8	
Top Chord Che	eck En	nd Panel LE	First Panel LE	Interior Panel	First Panel RE	End Panel RE	Gap Between Chords:	
Length		29.00	29.00	24.00	29.00	29.00	1.00	
Bending Load		203.00	203.00	0.00	203.00	203.00	Min Weld Len 2X: 0.5000	
Axial Load		7,902.82	7,696.68	22,521.40	7,696.68	7,902.82	Max Load Fillers TC:	
fa		10,995.23	10,708.43	31,334.12	10,708.43	10,995.23	25,773.71	
Maximum K L/r		97.91	97.91	51.59	97.91	97.91	Max Load no Fillers TC:	
Fa		22,046.98	22,046.98	35,859.07	22,046.98	22,046.98	19,592.05	
F'e		38,423.01	38,423.01	56,100.26	38,423.01	38,423.01	TC OAL/Ryy: 344.9666	
Cm		0.9142	0.9164	0.7766	0.9164	0.9142	BC Stress:	
Panel Point Moment		1547.17	1547.29	0.00	1547.29	1547.17	35,085.12	
Mid Panel Moment		1088.91	556.21	0.00	556.21	1088.91	BC L/Rz:	
Panel Point fb		10731.65	10732.49	0.00	10732.49	10731.65	161.5344	
Mid Panel fb		2948.90	1506.29	0.00	1506.29	2948.90	TC Shear Stress:	
Fillers Panel Point Stress		0	0	6	0	0	11,974.94	
		21,726.88	21,440.92	31,334.12	21,440.92	21,726.88	BC Shear Stress: 13,716.75	
Mid Panel Stress		0.5861	0.5300	0.8738	0.5300	0.5861		

Member	Web Tension	Allow Tension	Web Comp	Allow Comp	Weld	Qty	Material
W2	8,852.68	24,353.48	0.00	5,867.13	2.0 x 0.199	1	RH = round 7/8
W3	0.00	14,180.35	5,641.74	6,261.88	2.3 x 0.109	1	1C = 1 1/2 x 1 1/2 x .109
W4	4,530.17	9,275.36	0.00	2,695.05	2.0 x 0.109	1	10 = 1 x 1 x .109
W5	0.00	11,727.85	3,523.47	5,245.65	2.0 x 0.109	1	15 = 1 1/4 x 1 1/4 x .109
W6	2,516.76	9,275.36	0.00	2,695.05	2.0 x 0.109	1	10 = 1 x 1 x .109
W7	0.00	9,275.36	1,866.60	2,695.05	2.0 x 0.109	1	10 = 1 x 1 x .109
W8	1,866.60	9,275.36	0.00	2,695.05	2.0 x 0.109	1	10 = 1 x 1 x .109
V1	0.00	9,275.36	849.62	5,833.46	2.0 x 0.109	1	10 = 1 x 1 x .109
V2	0.00	9,275.36	698.21	6,048.97	2.0 x 0.109	1	10 = 1 x 1 x .109

^{*} Symmetrical Joist



STRESS ANALYSIS - PAGE 1 Job Number: **00-0002**

Job Name: LRFD - SJI SUBMITTAL

Date Run: 10/8/2006

Location: JUAREZ,

20.00

Joist Description:
Deep Long Span 20K3

Mark: **J07**

Geometry

Base Length: 32-0	Working Lengt	th: Jois 20	Depth: 00	Efective Depth: 19.16	BC Panel Length: 10 @ 12-0	Shape: Parallel Chords
Variable	Left End	Right Er	d			
BC Panel	3-4	3-4				
TC Panel	2-1	2-1	₩			
First Half	0-8	0-8				
First Diag.	4-0	4-0				

Loads

Depth

Uniform Load in TC (plf) 303.80 Live Load (plf) 20	Uniform Load in TC (plf)
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Stress Analysis Summary

Int Panel TC: Max Panel BC

20.00

Int. Panel TC: 24.00			Reaction LE: Reaction 4,579.00 Reaction 4,579.0					Max BC Tension 22,699.73	
Member	TC Tension	TC Compresion	BC Tension	BC Compresion	Web Tension	Web Comp.	Web Length	PP Dist.	
W2	0.00	8,530.32	0.00	0.00	9,553.65	0.00	42.56	0-2	
V1S	0.00	8,096.45	0.00	0.00	0.00	815.60	24.34	2-1	
W3	0.00	8,096.45	9,660.91	0.00	0.00	4,060.99	20.77	3-4	
W4	0.00	13,644.99	9,660.91	0.00	5,098.33	0.00	30.71	4-0	
W5	0.00	13,644.99	16,904.70	0.00	0.00	4,171.36	30.71	6-0	
W6	0.00	19,440.03	16,904.70	0.00	3,244.39	0.00	30.71	8-0	
W7	0.00	19,440.03	21,250.97	0.00	0.00	2,317.42	30.71	10-0	
W8	0.00	22,337.54	21,250.97	0.00	1,834.63	0.00	30.71	12-0	
W9	0.00	22,337.54	22,699.73	0.00	0.00	1,834.63	30.71	14-0	

^{*} Symmetrical Joist

Member	Position	Max Tension	Max Comp.	Length
V2	Interior	0.00	690.09	19.16



Job Number: **00-0002**

Fb:

Job Name: LRFD - SJI SUBMITTAL

Mom of Inertia:

Joist Description:
Deep Long Span 20K3

LL 240:

Max Bridg TC:

Date Run: 10/8/2006 Mark: **J07**

Max Bridg BC:

Chord Properties

Chord	Area	Rx	Rz	Ryy	Υ	lx	Q	Material
TC	0.3594	0.4652	0.2962	1.0320	0.4212	0.0778	0.9607	1E = 1 1/2 x 1 1/2 x .125
ВС	0.3151	0.4675	0.2972	1.0278	0.4154	0.0689	0.9050	1C = 1 1/2 x 1 1/2 x .109

LL 240:

Axial and Bending Analysis K:

Fy:

1.00 50,000.00	45,000.00	123.46	217.88	217.88	12-5 5/8	20-6 5/8
Top Chord Check	End Panel LE	First Panel LE	Interior Panel	First Panel RE	End Panel RE	Gap Between Chords:
Length	23.00	23.00	24.00	23.00	23.00	1.00
Bending Load	199.00	-	0.00	-	199.00	Min Weld Len 2X: 0.5000
Axial Load	8,530.32	-	22,337.54	-	8,530.32	Max Load Fillers TC:
fa	11,868.27	-	31,078.32	-	11,868.27	25,773.71
Maximum K L/r	77.65	-	51.59	-	77.65	Max Load no Fillers TC:
Fa	28,303.88	-	35,859.07	-	28,303.88	19,592.05
F'e	61,084.59	-	56,100.26	-	61,084.59	TC OAL/Ryy: 368.2228
Cm	0.9417	-	0.7784	-	0.9417	BC Stress:
Panel Point Moment	918.51	-	0.00	-	918.51	36,017.72
Mid Panel Moment	685.40	-	0.00	-	685.40	BC L/Rz:
Panel Point fb	6371.10	-	0.00	-	6371.10	161.5344
Mid Panel fb	1856.16	-	0.00	-	1856.16	TC Shear Stress:
Fillers	0	-	4	-	0	12,915.56
Panel Point Stress	18,239.37		31,078.32		18,239.37	BC Shear Stress: 14,794.15
Mid Panel Stress	0.4695	-	0.8667	-	0.4695	,

Member	Web Tension	Allow Tension	Web Comp	Allow Comp	Weld	Qty	Material
W2	9,553.65	24,353.48	0.00	4,560.54	2.0 x 0.214	1	RH = round 7/8
W3	0.00	10,546.88	4,060.99	4,143.71	2.0 x 0.125	1	11 = 1 x 1 x .125
W4	5,098.33	9,275.36	0.00	2,414.23	2.1 x 0.109	1	$10 = 1 \times 1 \times .109$
W5	0.00	11,727.85	4,171.36	4,789.65	2.0 x 0.109	1	15 = 1 1/4 x 1 1/4 x .109
W6	3,244.39	9,275.36	0.00	2,414.23	2.0 x 0.109	1	$10 = 1 \times 1 \times .109$
W7	0.00	9,275.36	2,317.42	2,414.23	2.0 x 0.109	1	$10 = 1 \times 1 \times .109$
W8	1,834.63	9,275.36	0.00	2,414.23	2.0 x 0.109	1	$10 = 1 \times 1 \times .109$
W9	0.00	9,275.36	1,834.63	2,414.23	2.0 x 0.109	1	$10 = 1 \times 1 \times .109$
V1	0.00	9,275.36	815.60	3,826.27	2.0 x 0.109	1	10 = 1 x 1 x .109
V2	0.00	9,275.36	690.09	5,356.41	2.0 x 0.109	1	10 = 1 x 1 x .109

^{*} Symmetrical Joist

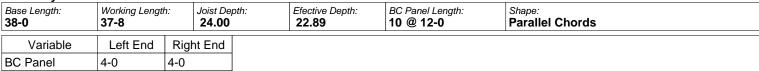


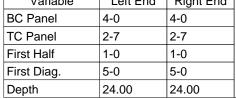
STRESS ANALYSIS - PAGE 1 Job Name: LRFD - SJI SUBMITTAL Job Number:

Joist Description:
Deep Long Span 24K8 JUAREZ,

Date Run: 10/8/2006 Mark: **J08**

Geometry





Loads

Uniform Load in TC (plf)	471.80 Live Load (plf)	302.40
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Stress Analysis Summary

Int. Panel TC: Max Panel BC: 24.00 48.00		Reaction LE: 8,429.80	Reaction 8,429.8	action RE: Minimum Shear: 429.80 2,107.45		Max TC Comp.: 41,608.88		Max BC Tension 41,139.64	
Member	TC Tension	TC Compresion	BC Tension	BC Compresion	Web Tension	Web Comp.	Web Length	PP Dist.	
W2	0.00	15,851.39	0.00	0.00	17,705.99	0.00	51.38	0-2	
V1S	0.00	15,048.15	0.00	0.00	0.00	1,555.36	28.52	2-7	
W3	0.00	15,048.15	18,616.30	0.00	0.00	7,685.72	25.85	4-0	
W4	0.00	24,716.37	18,616.30	0.00	8,430.26	0.00	33.17	5-0	
W5	0.00	24,716.37	29,877.97	0.00	0.00	7,133.30	33.17	7-0	
W6	0.00	34,101.10	29,877.97	0.00	5,836.33	0.00	33.17	9-0	
W7	0.00	34,101.10	37,385.75	0.00	0.00	4,539.37	33.17	11-0	
W8	0.00	39,731.93	37,385.75	0.00	3,242.41	0.00	33.17	13-0	
W9	0.00	39,731.93	41,139.64	0.00	0.00	3,053.27	33.17	15-0	
W10	0.00	41,608.88	41,139.64	0.00	3,053.27	0.00	33.17	17-0	

^{*} Symmetrical Joist

Member	Position	Max Tension	Max Comp.	Length
V2	Interior	0.00	1,103.24	22.89



Job Number: **00-0002**

Job Name: LRFD - SJI SUBMITTAL

Joist Description:
Deep Long Span 24K8

Mark: **J08**

Date Run: 10/8/2006

Chord Properties

Chord	Area	Rx	Rz	Ryy	Υ	lx	Q	Material
TC	0.6254	0.6208	0.3951	1.2286	0.5603	0.2410	0.9522	23 = 2 x 2 x .163
ВС	0.4844	0.6262	0.3975	1.2195	0.5464	0.1900	0.8343	20 = 2 x 2 x .125

Axial and Bending Analysis

κ: 1.00	Fy: 50,000.00	Fb: 45,000.00	Mom of Inertia: 286.56	LL 240: 300.49	LL 240: 300.49	Max Bridg T 14-10 1/8		
Top Cho	ord Check	End Panel LE	First Panel LE	Interior Panel	First Panel RE	End Panel RE	Gap Between Chords:	
Length		29.00	29.00	24.00	29.00	29.00	1.00	
Bending Load		310.00	310.00	0.00	310.00	310.00	Min Weld Len 2X: 0.5000	
Axial Load		15,851.39	15,048.15	41,608.88	15,048.15	15,851.39	Max Load Fillers TC:	
fa		12,672.37	12,030.22	33,264.16	12,030.22	12,672.37	48,299.51	
Maximum K L	/r	73.39	73.39	38.66	73.39	73.39	Max Load no Fillers TC:	
Fa		29,448.25	29,448.25	38,612.98	29,448.25	29,448.25	41,456.19	
F'e		68,421.98	68,421.98	99,900.85	68,421.98	68,421.98	TC OAL/Ryy: 367.8949	
Cm		0.9444	0.9473	0.8668	0.9473	0.9444	BC Stress:	
Panel Point M	loment	2362.67	2362.86	0.00	2362.86	2362.67	42,466.72	
Mid Panel Mo	ment	1662.86	849.39	0.00	849.39	1662.86	BC L/Rz:	
Panel Point fb)	7057.29	7057.84	0.00	7057.84	7057.29	120.7419	
Mid Panel fb		1932.84	987.29	0.00	987.29	1932.84	TC Shear Stress:	
Fillers		0	0	2	0	0	13,658.25	
Panel Point Stress		19,729.66	19,088.07	33,264.16	19,088.07	19,729.66	BC Shear Stress: 17,772.92	
Mid Panel Str	ess	0.4826	0.4350	0.8615	0.4350	0.4826	,	

= co.g							
Member	Web Tension	Allow Tension	Web Comp	Allow Comp	Weld	Qty	Material
W2	17,705.99	24,353.48	0.00	3,226.12	3.7 x 0.215	1	RH = round 7/8
W3	0.00	16,171.88	7,685.72	8,630.11	2.8 x 0.125	1	1E = 1 1/2 x 1 1/2 x .125
W4	8,430.26	9,275.36	0.00	2,134.40	3.5 x 0.109	1	$10 = 1 \times 1 \times .109$
W5	0.00	16,171.88	7,133.30	7,931.99	2.6 x 0.125	1	1E = 1 1/2 x 1 1/2 x .125
W6	5,836.33	9,275.36	0.00	2,134.40	2.4 x 0.109	1	10 = 1 x 1 x .109
W7	0.00	13,359.38	4,539.37	4,823.38	2.0 x 0.125	1	18 = 1 1/4 x 1 1/4 x .125
W8	3,242.41	9,275.36	0.00	2,134.40	2.0 x 0.109	1	$10 = 1 \times 1 \times .109$
W9	0.00	11,727.85	3,053.27	4,262.72	2.0 x 0.109	1	15 = 1 1/4 x 1 1/4 x .109
W10	3,053.27	9,275.36	0.00	2,134.40	2.0 x 0.109	1	10 = 1 x 1 x .109
V1	0.00	9,275.36	1,555.36	2,887.77	2.0 x 0.109	1	10 = 1 x 1 x .109
V2	0.00	9,275.36	1,103.24	4,337.98	2.0 x 0.109	1	10 = 1 x 1 x .109

^{*} Symmetrical Joist



	STRESS ANALYSIS - PAGE 1
Job Number: 00-0002	Job Name: LRFD - SJI SUBMITTAL

Joist Descriptio

Date Run: 10/8/2006

Location: JUAREZ,

24.00

Joist Description:
Deep Long Span 24K8

Mark: **J09**

Geometry

Base Length: 38-6	Working Lengt	th: Joist D 24.00	-1-	Efective Depth: 22.89	BC Panel Length: 10 @ 12-0	Shape: Parallel Chords
Variable	Left End	Right End				
BC Panel	4-0	4-0				
TC Panel	2-8 1/2	2-8 1/2	A			•
First Half	1-3	1-3				
First Diag.	5-3	5-3				

Loads

Depth

Uniform Load in TC (plf)	459.10	Live Load (plf)	290.40
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Stress Analysis Summary

24.00

Int. Panel TC: 24.00	Max Panel BC: 48.00	Reaction LE: 8,301.25	Reaction 8,301.2		nimum Shear: 075.31	Max TC Comp.: 41,518.27	Max BC 1 41,062.	
Member	TC Tension	TC Compresion	BC Tension	BC Compresion	Web Tension	Web Comp.	Web Length	PP Dist.
W2	0.00	15,569.05	0.00	0.00	17,390.62	0.00	51.38	0-2
V1S	0.00	14,820.49	0.00	0.00	0.00	1,542.79	27.65	2-8 1/2
W3	0.00	14,820.49	19,172.94	0.00	0.00	7,941.71	27.37	4-0
W4	0.00	25,101.29	19,172.94	0.00	8,192.95	0.00	33.17	5-3
W5	0.00	25,101.29	30,117.59	0.00	0.00	6,932.49	33.17	7-3
W6	0.00	34,221.84	30,117.59	0.00	5,672.04	0.00	33.17	9-3
W7	0.00	34,221.84	37,414.02	0.00	0.00	4,411.59	33.17	11-3
W8	0.00	39,694.16	37,414.02	0.00	3,151.13	0.00	33.17	13-3
W9	0.00	39,694.16	41,062.24	0.00	0.00	3,006.71	33.17	15-3
W10	0.00	41,518.27	41,062.24	0.00	3,006.71	0.00	33.17	17-3

^{*} Symmetrical Joist

Member	Position	Max Tension	Max Comp.	Length
V2	Interior	0.00	1,077.59	22.89



Job Number: **00-002**

Job Name: LRFD - SJI SUBMITTAL

Joist Description:
Deep Long Span 24K8

Date Run: 10/8/2006 Mark: **J09**

Chord Properties

Chord	Area	Rx	Rz	Ryy	Υ	lx	Q	Material
TC	0.6254	0.6208	0.3951	1.2286	0.5603	0.2410	0.9522	23 = 2 x 2 x .163
ВС	0.4844	0.6262	0.3975	1.2195	0.5464	0.1900	0.8343	20 = 2 x 2 x .125

Axial and Bending Analysis

<i>κ</i> : 1.00	Fy: 50,000.00	Fb: 45,000.00	Mom of Inertia: 286.56	LL 240: 288.84	LL 240: 288.84	Max Bridg T 14-10 1/8		
Top C	hord Check	End Panel LE	First Panel LE	Interior Panel	First Panel RE	End Panel RE	Gap Between Chords:	
Length		30.50	30.50	24.00	30.50	30.50	1.00	
Bending Loa	ad	302.00	302.00	0.00	302.00	302.00	Min Weld Len 2X: 0.5000	
Axial Load		15,569.05	14,820.49	41,518.27	14,820.49	15,569.05	Max Load Fillers TC:	
fa		12,446.66	11,848.22	33,191.73	11,848.22	12,446.66	48,299.51	
Maximum K	L/r	77.19	77.19	38.66	77.19	77.19	Max Load no Fillers TC:	
Fa		28,299.26	28,299.26	38,612.98	28,299.26	28,299.26	41,456.19 TC OAL/Ryy: 372.7784	
F'e		61,857.44	61,857.44	99,900.85	61,857.44	61,857.44		
Cm		0.9396	0.9425	0.8671	0.9425	0.9396	BC Stress:	
Panel Point	Moment	2558.87	2559.15	0.00	2559.15	2558.87	42,386.82	
Mid Panel M	loment	1786.82	937.68	0.00	937.68	1786.82	BC L/Rz:	
Panel Point	fb	7643.33	7644.15	0.00	7644.15	7643.33	120.7419	
Mid Panel fl)	2076.92	1089.92	0.00	1089.92	2076.92	TC Shear Stress:	
Fillers		0	0	2	0	0	13,414.98	
Panel Point	Stress	20,090.00	19,492.37	33,191.73	19,492.37	20,090.00	BC Shear Stress: 17,456.36	
Mid Panel S	tress	0.4968	0.4483	0.8596	0.4483	0.4968		

Member	Web Tension	Allow Tension	Web Comp	Allow Comp	Weld	Qty	Material
W2	17,390.62	24,353.48	0.00	3,226.12	3.6 x 0.215	1	RH = round 7/8
W3	0.00	16,171.88	7,941.71	8,036.37	2.9 x 0.125	1	1E = 1 1/2 x 1 1/2 x .125
W4	8,192.95	9,275.36	0.00	2,134.40	3.4 x 0.109	1	$10 = 1 \times 1 \times .109$
W5	0.00	16,171.88	6,932.49	7,931.99	2.5 x 0.125	1	1E = 1 1/2 x 1 1/2 x .125
W6	5,672.04	9,275.36	0.00	2,134.40	2.3 x 0.109	1	10 = 1 x 1 x .109
W7	0.00	13,359.38	4,411.59	4,823.38	2.0 x 0.125	1	18 = 1 1/4 x 1 1/4 x .125
W8	3,151.13	9,275.36	0.00	2,134.40	2.0 x 0.109	1	$10 = 1 \times 1 \times .109$
W9	0.00	11,727.85	3,006.71	4,262.72	2.0 x 0.109	1	15 = 1 1/4 x 1 1/4 x .109
W10	3,006.71	9,275.36	0.00	2,134.40	2.0 x 0.109	1	$10 = 1 \times 1 \times .109$
V1	0.00	9,275.36	1,542.79	3,071.95	2.0 x 0.109	1	$10 = 1 \times 1 \times .109$
V2	0.00	9,275.36	1,077.59	4,337.98	2.0 x 0.109	1	10 = 1 x 1 x .109

^{*} Symmetrical Joist



Job Number: 00-0002	Job Name: LRFD - SJI SUBMITTAL		 te Run: /8/2006
Location:		Joist Description:	Mark:

Geometry

Base Length: 39-0	Working Lengt	th: Joist De 24.00	•	Efective Depth: 22.89	BC Panel Length: 10 @ 12-0	Shape: Parallel Chords
Variable	Left End	Right End				
BC Panel	4-0	4-0				
TC Panel	2-10	2-10	*			
First Half	1-6	1-6				
First Diag.	5-6	5-6				
Depth	24.00	24.00				

Loads

Uniform Load in TC (plf)	446.40	Live Load (plf)	278.40
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Stress Analysis Summary

Int. Panel TC: 24.00	Max Panel BC: 48.00	Reaction LE: 8,166.40	Reaction 8,166.4		inimum Shear: 041.60	Max TC Comp.: 41,378.90		Max BC Tension 40,936.08	
Member	TC Tension	TC Compresion	BC Tension	BC Compresion	n Web Tension	Web Comp.	Web Length	PP Dist.	
W2	0.00	15,277.23	0.00	0.0	17,064.65	0.00	51.38	0-2	
V1S	0.00	14,588.40	0.00	0.0	0.00	1,527.22	26.83	2-10	
W3	0.00	14,588.40	19,680.81	0.0	0.00	8,239.03	29.12	4-0	
W4	0.00	25,437.44	19,680.81	0.0	7,955.64	0.00	33.17	5-6	
W5	0.00	25,437.44	30,308.45	0.0	0.00	6,731.69	33.17	7-6	
W6	0.00	34,293.81	30,308.45	0.0	5,507.75	0.00	33.17	9-6	
W7	0.00	34,293.81	37,393.54	0.0	0.00	4,283.80	33.17	11-6	
W8	0.00	39,607.63	37,393.54	0.0	3,059.86	0.00	33.17	13-6	
W9	0.00	39,607.63	40,936.08	0.0	0.00	2,957.86	33.17	15-6	
W10	0.00	41,378.90	40,936.08	0.0	2,957.86	0.00	33.17	17-6	

^{*} Symmetrical Joist

Member	Position	Max Tension	Max Comp.	Length
V2	Interior	0.00	1,051.69	22.89



Job Number: Job Na 00-0002 LRFI

Job Name: LRFD - SJI SUBMITTAL

Joist Description:
Deep Long Span 24K8

Mark: J10

Date Run: 10/8/2006

Chord Properties

Chord	Area	Rx	Rz	Ryy	Υ	lx	Q	Material
TC	0.6254	0.6208	0.3951	1.2286	0.5603	0.2410	0.9522	23 = 2 x 2 x .163
ВС	0.4844	0.6262	0.3975	1.2195	0.5464	0.1900	0.8343	20 = 2 x 2 x .125

Axial and Bending Analysis

K: Fy: 50,000.00		Fb: 45,000.00	Mom of Inertia: 286.56	LL 240: 277.78	LL 240: 277.78	Max Bridg 7 14-10 1/8		
Top C	hord Check	End Panel LE	First Panel LE	Interior Panel	First Panel RE	End Panel RE	Gap Between Chords:	
Length		32.00	32.00	24.00	32.00	32.00	1.00	
Bending Loa	ad	294.00	294.00	0.00	294.00	294.00	Min Weld Len 2X: 0.5000	
Axial Load		15,277.23	14,588.40	41,378.90	14,588.40	15,277.23	Max Load Fillers TC:	
fa		12,213.36	11,662.68	33,080.30	11,662.68	12,213.36	48,299.51	
Maximum K	L/r	80.99	80.99	38.66	80.99	80.99	Max Load no Fillers TC:	
Fa		27,140.58	27,140.58	38,612.98	27,140.58	27,140.58	TC OAL/RVV	
F'e		56,194.22	56,194.22	99,900.85	56,194.22	56,194.22		
Cm		0.9348	0.9377	0.8675	0.9377	0.9348	BC Stress:	
Panel Point	Moment	2753.22	2753.58	0.00	2753.58	2753.22	42,256.60	
Mid Panel M	1oment	1910.46	1024.23	0.00	1024.23	1910.46	BC L/Rz:	
Panel Point	fb	8223.86	8224.94	0.00	8224.94	8223.86	120.7419	
Mid Panel fb)	2220.64	1190.52	0.00	1190.52	2220.64	TC Shear Stress:	
Fillers Panel Point Stress		0	0	0	0	0	13,163.53	
		20,437.22	19,887.62	33,080.30	19,887.62	20,437.22	BC Shear Stress: 17,129.16	
Mid Panel S	tress	0.5119	0.4626	0.8567	0.4626	0.5119	,	

Member	Web Tension	Allow Tension	Web Comp	Allow Comp	Weld	Qty	Material
W2	17,064.65	24,353.48	0.00	3,226.12	3.6 x 0.215	1	RH = round 7/8
W3	0.00	19,964.88	8,239.03	9,103.86	2.4 x 0.156	1	1J = 1 1/2 x 1 1/2 x .156
W4	7,955.64	9,275.36	0.00	2,134.40	3.3 x 0.109	1	$10 = 1 \times 1 \times .109$
W5	0.00	14,180.35	6,731.69	6,840.40	2.8 x 0.109	1	1C = 1 1/2 x 1 1/2 x .109
W6	5,507.75	9,275.36	0.00	2,134.40	2.3 x 0.109	1	10 = 1 x 1 x .109
W7	0.00	13,359.38	4,283.80	4,823.38	2.0 x 0.125	1	18 = 1 1/4 x 1 1/4 x .125
W8	3,059.86	9,275.36	0.00	2,134.40	2.0 x 0.109	1	$10 = 1 \times 1 \times .109$
W9	0.00	11,727.85	2,957.86	4,262.72	2.0 x 0.109	1	15 = 1 1/4 x 1 1/4 x .109
W10	2,957.86	9,275.36	0.00	2,134.40	2.0 x 0.109	1	$10 = 1 \times 1 \times .109$
V1	0.00	9,275.36	1,527.22	3,260.72	2.0 x 0.109	1	10 = 1 x 1 x .109
V2	0.00	9,275.36	1,051.69	4,337.98	2.0 x 0.109	1	10 = 1 x 1 x .109

^{*} Symmetrical Joist



Job Number: Job Name: LRFD - SJI SUBMITTAL

Date Run: 10/8/2006

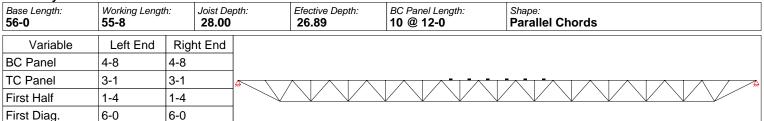
Location: JUAREZ,

28.00

Joist Description:
Deep Long Span 28K9

Mark: J11

Geometry



Loads

Depth

Uniform Load in TC (plf) 270.80 Live Load (plf)	139.20
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Stress Analysis Summary

28.00

Int. Panel TC: 24.00	Max Panel BC: 48.00	Reaction LE: 7,014.00	Reaction 7,014.0		nimum Shear: 753.50	Max TC Comp.: 43,554.89		Max BC Tension 43,330.01	
Member	TC Tension	TC Compresion	BC Tension	BC Compresion	Web Tension	Web Comp.	Web Length	PP Dist.	
W2	0.00	13,345.71	0.00	0.00	14,909.19	0.00	60.33	0-2	
V1S	0.00	12,826.43	0.00	0.00	0.00	1,117.70	32.93	3-1	
W3	0.00	12,826.43	16,343.43	0.00	0.00	6,878.60	31.29	4-8	
W4	0.00	21,066.09	16,343.43	0.00	7,092.86	0.00	36.05	6-0	
W5	0.00	21,066.09	25,338.96	0.00	0.00	6,417.35	36.05	8-0	
W6	0.00	29,162.06	25,338.96	0.00	5,741.84	0.00	36.05	10-0	
W7	0.00	29,162.06	32,535.38	0.00	0.00	5,066.33	36.05	12-0	
W8	0.00	35,458.93	32,535.38	0.00	4,390.82	0.00	36.05	14-0	
W9	0.00	35,458.93	37,932.69	0.00	0.00	3,715.31	36.05	16-0	
W10	0.00	39,956.69	37,932.69	0.00	3,039.80	0.00	36.05	18-0	
W11	0.00	39,956.69	41,530.91	0.00	0.00	2,364.29	36.05	20-0	
W12	0.00	42,655.34	41,530.91	0.00	2,350.21	0.00	36.05	22-0	
W13	0.00	42,655.34	43,330.01	0.00	0.00	2,350.21	36.05	24-0	
W14	0.00	43,554.89	43,330.01	0.00	2,350.21	0.00	36.05	26-0	

^{*} Symmetrical Joist

l	Member	Position	Max Tension	Max Comp.	Length
	V2	Interior	0.00	721.78	26.89



Job Number: **00-0002**

Job Name: LRFD - SJI SUBMITTAL

Location: JUAREZ, Joist Description:
Deep Long Span 28K9 Date Run: 10/8/2006 Mark: **J11**

Chord	Area	Rx	Rz	Ryy	Υ	lx	Q	Material
TC	0.6254	0.6208	0.3951	1.2286	0.5603	0.2410	0.9522	23 = 2 x 2 x .163
ВС	0.4844	0.6262	0.3975	1.2195	0.5464	0.1900	0.8343	20 = 2 x 2 x .125

Axial and Bending Analysis

K: Fy:

K: Fy: 50,000.00		Fb: 45,000.00	Mom of Inertia: 395.28	LL 240: 128.41	<i>LL 240:</i> 128.41	Max Bridg T 14-10 1/8		
Top Cho	ord Check	End Panel LE	First Panel LE	Interior Panel	First Panel RE	End Panel RE	Gap Between Chords:	
Length		35.00	35.00	24.00	35.00	35.00	1.00	
Bending Load		181.00	181.00	0.00	181.00	181.00	Min Weld Len 2X: 0.5000	
Axial Load		13,345.71	12,826.43	43,554.89	12,826.43	13,345.71	Max Load Fillers TC:	
fa		10,669.21	10,254.08	34,819.90	10,254.08	10,669.21	Max Load Fillers TC: 48,299.51	
Maximum K L	/r	88.58	88.58	88.58 38.66 88.58		88.58	Max Load no Fillers TC:	
Fa		24,813.79	24,813.79	38,612.98	24,813.79	24,813.79	41,456.19	
F'e		46,973.79	46,973.79	99,900.85	46,973.79	46,973.79	TC OAL/Ryy: 543.7031	
Cm		0.9319	0.9345	0.8606	0.9345	0.9319	BC Stress:	
Panel Point M	oment	2039.54	2039.88	0.00	2039.88	2039.54		
Mid Panel Moi	ment	1402.43	775.17	0.00	775.17	1402.43		
Panel Point fb		6092.08	6093.11	0.00	6093.11	6092.08	120.7419	
Mid Panel fb		1630.12	901.02	0.00	901.02	1630.12	TC Shear Stress:	
Fillers Panel Point Stress		0	0	6	0	0	11,505.48	
		16,761.29	16,347.19	34,819.90	16,347.19	16,761.29	BC Shear Stress: 14,971.63	
Mid Panel Stre	ess	0.4758	0.4384	0.9018	0.4384	0.4758	,	

Web Tension	Allow Tension	Web Comp	Allow Comp	Weld	Qty	Material
14,909.19	31,808.63	0.00	3,826.18	2.9 x 0.230	1	RM = round 1
0.00	17,773.02	6,878.60	6,937.53	2.2 x 0.138	1	1G = 1 1/2 x 1 1/2 x .138
7,092.86	9,275.36	0.00	1,731.91	2.9 x 0.109	1	10 = 1 x 1 x .109
0.00	16,171.88	6,417.35	6,784.68	2.3 x 0.125	1	1E = 1 1/2 x 1 1/2 x .125
5,741.84	9,275.36	0.00	1,731.91	2.4 x 0.109	1	10 = 1 x 1 x .109
0.00	14,180.35	5,066.33	5,909.83	2.1 x 0.109	1	1C = 1 1/2 x 1 1/2 x .109
4,390.82	9,275.36	0.00	1,731.91	2.0 x 0.109	1	10 = 1 x 1 x .109
0.00	13,359.38	3,715.31	3,913.82	2.0 x 0.125	1	18 = 1 1/4 x 1 1/4 x .125
3,039.80	9,275.36	0.00	1,731.91	2.0 x 0.109	1	10 = 1 x 1 x .109
0.00	11,727.85	2,364.29	3,458.88	2.0 x 0.109	1	15 = 1 1/4 x 1 1/4 x .109
2,350.21	9,275.36	0.00	1,731.91	2.0 x 0.109	1	10 = 1 x 1 x .109
0.00	11,727.85	2,350.21	3,458.88	2.0 x 0.109	1	15 = 1 1/4 x 1 1/4 x .109
2,350.21	9,275.36	0.00	1,731.91	2.0 x 0.109	1	10 = 1 x 1 x .109
0.00	9,275.36	1,117.70	2,075.33	2.0 x 0.109	1	10 = 1 x 1 x .109
0.00	9,275.36	721.78	3,111.20	2.0 x 0.109	1	10 = 1 x 1 x .109
	14,909.19 0.00 7,092.86 0.00 5,741.84 0.00 4,390.82 0.00 3,039.80 0.00 2,350.21 0.00 2,350.21 0.00	14,909.19 31,808.63 0.00 17,773.02 7,092.86 9,275.36 0.00 16,171.88 5,741.84 9,275.36 0.00 14,180.35 4,390.82 9,275.36 0.00 13,359.38 3,039.80 9,275.36 0.00 11,727.85 2,350.21 9,275.36 0.00 11,727.85 2,350.21 9,275.36 0.00 9,275.36 0.00 9,275.36	14,909.19 31,808.63 0.00 0.00 17,773.02 6,878.60 7,092.86 9,275.36 0.00 0.00 16,171.88 6,417.35 5,741.84 9,275.36 0.00 0.00 14,180.35 5,066.33 4,390.82 9,275.36 0.00 0.00 13,359.38 3,715.31 3,039.80 9,275.36 0.00 0.00 11,727.85 2,364.29 2,350.21 9,275.36 0.00 0.00 11,727.85 2,350.21 2,350.21 9,275.36 0.00 0.00 9,275.36 0.00 0.00 11,727.85 2,350.21 2,350.21 9,275.36 0.00	14,909.19 31,808.63 0.00 3,826.18 0.00 17,773.02 6,878.60 6,937.53 7,092.86 9,275.36 0.00 1,731.91 0.00 16,171.88 6,417.35 6,784.68 5,741.84 9,275.36 0.00 1,731.91 0.00 14,180.35 5,066.33 5,909.83 4,390.82 9,275.36 0.00 1,731.91 0.00 13,359.38 3,715.31 3,913.82 3,039.80 9,275.36 0.00 1,731.91 0.00 11,727.85 2,364.29 3,458.88 2,350.21 9,275.36 0.00 1,731.91 0.00 11,727.85 2,350.21 3,458.88 2,350.21 9,275.36 0.00 1,731.91 0.00 9,275.36 0.00 1,731.91 0.00 17,731.91 0.00 1,731.91	14,909.19 31,808.63 0.00 3,826.18 2.9 x 0.230 0.00 17,773.02 6,878.60 6,937.53 2.2 x 0.138 7,092.86 9,275.36 0.00 1,731.91 2.9 x 0.109 0.00 16,171.88 6,417.35 6,784.68 2.3 x 0.125 5,741.84 9,275.36 0.00 1,731.91 2.4 x 0.109 0.00 14,180.35 5,066.33 5,909.83 2.1 x 0.109 4,390.82 9,275.36 0.00 1,731.91 2.0 x 0.109 0.00 13,359.38 3,715.31 3,913.82 2.0 x 0.125 3,039.80 9,275.36 0.00 1,731.91 2.0 x 0.109 0.00 11,727.85 2,364.29 3,458.88 2.0 x 0.109 2,350.21 9,275.36 0.00 1,731.91 2.0 x 0.109 0.00 11,727.85 2,350.21 3,458.88 2.0 x 0.109 2,350.21 9,275.36 0.00 1,731.91 2.0 x 0.109 2,350.21 9,275.36 0.00 1,731.91	14,909.19 31,808.63 0.00 3,826.18 2.9 x 0.230 1 0.00 17,773.02 6,878.60 6,937.53 2.2 x 0.138 1 7,092.86 9,275.36 0.00 1,731.91 2.9 x 0.109 1 0.00 16,171.88 6,417.35 6,784.68 2.3 x 0.125 1 5,741.84 9,275.36 0.00 1,731.91 2.4 x 0.109 1 0.00 14,180.35 5,066.33 5,909.83 2.1 x 0.109 1 4,390.82 9,275.36 0.00 1,731.91 2.0 x 0.109 1 0.00 13,359.38 3,715.31 3,913.82 2.0 x 0.109 1 3,039.80 9,275.36 0.00 1,731.91 2.0 x 0.109 1 0.00 11,727.85 2,364.29 3,458.88 2.0 x 0.109 1 2,350.21 9,275.36 0.00 1,731.91 2.0 x 0.109 1 0.00 11,727.85 2,350.21 3,458.88 2.0 x 0.109 1 2,350.21

^{*} Symmetrical Joist



	STRES	S ANALYSIS - PAGE 1		
Job Number: 00-0002	Job Name: LRFD - SJI SUBMITTAL		Date I 10/8/	
Location: JUAREZ,		Joist Description: Deep Long Span 30K12		Mark: J12

Geometry

Base Length: 50-0	Working Lengt	th: Joist De 30.00	•	Efective Depth: 28.85	BC Panel Length: 10 @ 12-0	Shape: Parallel Chords
Variable	Left End	Right End				
BC Panel	5-0	5-0				
TC Panel	3-7	3-7	₩			
First Half	2-0	2-0		$\angle \qquad \bigvee$	$\overline{}$	
First Diag.	7-0	7-0				
Depth	30.00	30.00				

Loads

Uniform Load in TC (plf) 529.80 Live Load (plf)

Stress Analysis Summary

Int. Panel TC: 24.00	Max Panel BC: 48.00	Reaction LE: 12,406.73	Reaction 12,406 .		nimum Shear:	Max TC Comp.: 64,085.69	Max BC 7	
Member	TC Tension	TC Compresion	BC Tension	BC Compresion	Web Tension	Web Comp.	Web Length	PP Dist.
W2	0.00	23,230.02	0.00	0.00	25,944.39	0.00	64.78	0-2
V1S	0.00	22,224.03	0.00	0.00	0.00	2,301.78	33.48	3-7
W3	0.00	22,224.03	30,416.24	0.00	0.00	12,808.65	37.52	5-0
W4	0.00	37,482.67	30,416.24	0.00	11,048.48	0.00	37.52	7-0
W5	0.00	37,482.67	43,717.75	0.00	0.00	9,748.66	37.52	9-0
W6	0.00	49,121.48	43,717.75	0.00	8,448.84	0.00	37.52	11-0
W7	0.00	49,121.48	53,693.88	0.00	0.00	7,149.02	37.52	13-0
W8	0.00	57,434.93	53,693.88	0.00	5,849.19	0.00	37.52	15-0
W9	0.00	57,434.93	60,344.64	0.00	0.00	4,549.38	37.52	17-0
W10	0.00	62,423.00	60,344.64	0.00	4,034.86	0.00	37.52	19-0
W11	0.00	62,423.00	63,670.02	0.00	0.00	4,034.86	37.52	21-0
W12	0.00	64,085.69	63,670.02	0.00	4,034.86	0.00	37.52	23-0

^{*} Symmetrical Joist

Member	Position	Max Tension	Max Comp.	Length
V2	Interior	0.00	1,319.63	28.85



Job Number: **00-002** Job Name: LRFD - SJI SUBMITTAL

Joist Description:
Deep Long Span 30K12

Date Run: 10/8/2006 Mark: J12

Chord Properties

Chord	Area	Rx	Rz	Ryy	Υ	lx	Q	Material
TC	0.8742	0.6113	0.3918	1.2455	0.5852	0.3266	1.0000	28 = 2 x 2 x .232
ВС	0.7130	0.6174	0.3938	1.2345	0.5690	0.2718	1.0000	25 = 2 x 2 x .187

Axial and Bending Analysis

K: 1.00	Fy: 50,000.00	Fb: 45,000.00	Mom of Inertia: 654.13	LL 240: 299.20	LL 240: 299.20	Max Bridg T 15-0 5/8	Max Bridg BC: 24-8 1/4
Top C	hord Check	End Panel LE	First Panel LE	Interior Panel	First Panel RE	End Panel RE	Gap Between Chords:
Length		41.00	41.00	24.00	41.00	41.00	1.00
Bending Loa	ad	350.00	350.00	0.00	350.00	350.00	Min Weld Len 2X: 0.5000
Axial Load		23,230.02	22,224.03	64,085.69	22,224.03	23,230.02	Max Load Fillers TC:
fa		13,286.81	12,711.42	36,654.91	12,711.42	13,286.81	70,289.62
Maximum K	L/r	104.65	104.65	39.26	104.65	104.65	Max Load no Fillers TC:
Fa		20,204.70	20,204.70	40,203.36	20,204.70	20,204.70	59,797.13
F'e		33,193.72	33,193.72	96,872.66	33,193.72	33,193.72	TC OAL/Ryy: 478.5109
Cm		0.8799	0.8851	0.8486	0.8851	0.8799	BC Stress:
Panel Point	Moment	5444.65	5445.81	0.00	5445.81	5444.65	44,647.44
Mid Panel M	loment	3708.63	2115.22	0.00	2115.22	3708.63	BC L/Rz:
Panel Point	fb	11791.22	11793.75	0.00	11793.75	11791.22	121.8857
Mid Panel fb)	3322.21	1894.82	0.00	1894.82	3322.21	TC Shear Stress:
Fillers		0	0	6	0	0	14,111.27
Panel Point	Stress	25,078.03	24,505.17	36,654.91	24,505.17	25,078.03	BC Shear Stress: 17,461.45
Mid Panel S	tress	0.7659	0.6895	0.9117	0.6895	0.7659	, -

web besign							
Member	Web Tension	Allow Tension	Web Comp	Allow Comp	Weld	Qty	Material
W2	25,944.39	31,808.63	0.00	3,253.00	5.1 x 0.230	1	RM = round 1
W3	0.00	28,144.39	12,808.65	12,855.52	3.5 x 0.163	1	23 = 2 x 2 x .163
W4	11,048.48	11,727.85	0.00	3,128.62	4.6 x 0.109	1	15 = 1 1/4 x 1 1/4 x .109
W5	0.00	21,796.88	9,748.66	11,693.52	3.5 x 0.125	1	20 = 2 x 2 x .125
W6	8,448.84	9,275.36	0.00	1,566.54	3.5 x 0.109	1	10 = 1 x 1 x .109
W7	0.00	19,964.88	7,149.02	7,603.89	2.1 x 0.156	1	1J = 1 1/2 x 1 1/2 x .156
W8	5,849.19	9,275.36	0.00	1,566.54	2.4 x 0.109	1	10 = 1 x 1 x .109
W9	0.00	14,180.35	4,549.38	5,445.33	2.0 x 0.109	1	1C = 1 1/2 x 1 1/2 x .109
W10	4,034.86	9,275.36	0.00	1,566.54	2.0 x 0.109	1	10 = 1 x 1 x .109
W11	0.00	14,180.35	4,034.86	5,445.33	2.0 x 0.109	1	1C = 1 1/2 x 1 1/2 x .109
W12	4,034.86	9,275.36	0.00	1,566.54	2.0 x 0.109	1	10 = 1 x 1 x .109
V1	0.00	11,727.85	2,301.78	3,929.55	2.0 x 0.109	1	15 = 1 1/4 x 1 1/4 x .109
V2	0.00	9,275.36	1,319.63	2,650.97	2.0 x 0.109	1	10 = 1 x 1 x .109

^{*} Symmetrical Joist



1	Job Number: 00-0002	Job Name: LRFD - SJI SUBMITTAL		Date 10/8	Run: /2006
	Location: JUAREZ,		Joist Description: Deep Long Span 16KCS2		Mark: J13

Geometry

Base Length: 30-0	Working Lengt	th: Joist	Depth: 00	Efective Depth: 15.13	BC Panel Length: 10 @ 12-0	Shape: Parallel Chords
Variable	Left End	Right Er	d			
BC Panel	2-4	2-4				
TC Panel	1-6 1/2	1-6 1/2		\wedge	\wedge	
First Half	0-9 1/2	0-9 1/2			\checkmark	
First Diag.	3-1 1/2	3-1 1/2				
Depth	16.00	16.00				

Loads

Stress Analysis Summary

Int. Panel TC: 19.00	Max Panel BC: 19.00	Reaction LE: 6,000.00	Reaction 6,000.0		imum Shear: 00.00	Max TC Comp.: 34,598.96	Max BC 7 34,598.	
Member	TC Tension	TC Compresion	BC Tension	BC Compresion	Web Tension	Web Comp.	Web Length	PP Dist.
W2	0.00	10,310.29	0.00	0.00	11,929.05	0.00	30.08	0-2
V1S	0.00	34,598.96	0.00	0.00	7,084.63	7,084.63	17.87	1-6 1/2
W3	0.00	34,598.96	34,598.96	0.00	7,084.63	7,084.63	17.87	2-4
W4	0.00	34,598.96	34,598.96	0.00	7,084.63	7,084.63	17.87	3-1 1/2
W5	0.00	34,598.96	34,598.96	0.00	7,084.63	7,084.63	17.87	3-11
W6	0.00	34,598.96	34,598.96	0.00	7,084.63	7,084.63	17.87	4-8 1/2
W7	0.00	34,598.96	34,598.97	0.00	7,084.63	7,084.63	17.87	5-6
W8	0.00	34,598.96	34,598.97	0.00	7,084.63	7,084.63	17.87	6-3 1/2
W9	0.00	34,598.96	34,598.97	0.00	7,084.63	7,084.63	17.87	7-1
W10	0.00	34,598.96	34,598.97	0.00	7,084.63	7,084.63	17.87	7-10 1/2
W11	0.00	34,598.96	34,598.96	0.00	7,084.63	7,084.63	17.87	8-8
W12	0.00	34,598.96	34,598.96	0.00	7,084.63	7,084.63	17.87	9-5 1/2
W13	0.00	34,598.96	34,598.96	0.00	7,084.63	7,084.63	17.87	10-3
W14	0.00	34,598.96	34,598.96	0.00	7,084.63	7,084.63	17.87	11-0 1/2
W15	0.00	34,598.96	34,598.96	0.00	7,084.63	7,084.63	17.87	11-10
W16	0.00	34,598.96	34,598.96	0.00	7,084.63	7,084.63	17.87	12-7 1/2
W17	0.00	34,598.96	34,598.96	0.00	7,084.63	7,084.63	17.87	13-5
W18	0.00	34,598.96	34,598.96	0.00	7,084.63	7,084.63	17.87	14-2 1/2

^{*} Symmetrical Joist



Job Number: **00-002**

Job Name: LRFD - SJI SUBMITTAL

Mom of Inertia:

Joist Description:
Deep Long Span 16KCS2

LL 240:

Max Bridg TC:

Date Run: 10/8/2006 Mark: J13

Max Bridg BC:

Chord Properties

Chord	Area	Rx	Rz	Ryy	Υ	lx	Q	Material
TC	0.5260	0.4567	0.2934	0.8305	0.4436	0.1097	1.0000	1K = 1 1/2 x 1 1/2 x .187
ВС	0.3950	0.4634	0.2955	0.8195	0.4259	0.0848	0.9964	1G = 1 1/2 x 1 1/2 x .138

LL 240:

Axial and Bending Analysis

Fy:

1.00 50,000.00	45,000.00	103.48	222.10	222.10	11-9 1/8	16-4 5/8	
Top Chord Check	End Panel LE	First Panel LE	Interior Panel	First Panel RE	End Panel RE	Gap Between Chords:	
Length	16.50	19.00	19.00	19.00	16.50	0.50	
Bending Load	550.00	-	0.00	-	550.00	Min Weld Len 2X: 0.5000	
Axial Load	10,310.29	-	34,598.96	-	10,310.29	Max Load Fillers TC: 41,264.91	
fa	9,800.08	-	32,886.81	-	9,800.08		
Maximum K L/r	56.24	-	43.35	-	56.24	Max Load no Fillers TC: 34,838.47	
Fa	35,707.79	-	39,222.89	-	35,707.79		
F'e	114,426.70	-	86,295.48	-	114,426.70	TC OAL/Ryy: 428.6808	
Cm	0.9743	-	0.8476	-	0.9743	BC Stress: 43,801.04	
Panel Point Moment	1469.87	-	0.00	-	1469.87		
Mid Panel Moment	911.40	-	0.00	-	911.40		
Panel Point fb	7075.11	-	0.00	-	7075.11		
Mid Panel fb	1841.99	-	0.00	-	1841.99	TC Shear Stress:	
Fillers	0	-	0	-	0	11,764.24	
Panel Point Stress	16,875.20	-	32,886.81	-	16,875.20	BC Shear Stress: 15,894.39	
Mid Panel Stress	0.3181	-	0.8385	-	0.3181		

Member	Web Tension	Allow Tension	Web Comp	Allow Comp	Weld	Qty	Material
W2	11,929.05	12,425.24	0.00	2,532.99	2.9 x 0.185	1	R9 = round 5/8
V1S	7,084.63	16,705.05	7,084.63	9,323.31	2.0 x 0.159	1	RB = round 11/16
W3	7,084.63	16,705.05	7,084.63	9,323.31	2.0 x 0.159	1	RB = round 11/16
W4	7,084.63	16,705.05	7,084.63	9,323.31	2.0 x 0.159	1	RB = round 11/16
W5	7,084.63	16,705.05	7,084.63	9,323.31	2.0 x 0.159	1	RB = round 11/16
W6	7,084.63	16,705.05	7,084.63	9,323.31	2.0 x 0.159	1	RB = round 11/16
W7	7,084.63	16,705.05	7,084.63	9,323.31	2.0 x 0.159	1	RB = round 11/16
W8	7,084.63	16,705.05	7,084.63	9,323.31	2.0 x 0.159	1	RB = round 11/16
W9	7,084.63	16,705.05	7,084.63	9,323.31	2.0 x 0.159	1	RB = round 11/16
W10	7,084.63	16,705.05	7,084.63	9,323.31	2.0 x 0.159	1	RB = round 11/16
W11	7,084.63	16,705.05	7,084.63	9,323.31	2.0 x 0.159	1	RB = round 11/16
W12	7,084.63	16,705.05	7,084.63	9,323.31	2.0 x 0.159	1	RB = round 11/16
W13	7,084.63	16,705.05	7,084.63	9,323.31	2.0 x 0.159	1	RB = round 11/16
W14	7,084.63	16,705.05	7,084.63	9,323.31	2.0 x 0.159	1	RB = round 11/16
W15	7,084.63	16,705.05	7,084.63	9,323.31	2.0 x 0.159	1	RB = round 11/16
W16	7,084.63	16,705.05	7,084.63	9,323.31	2.0 x 0.159	1	RB = round 11/16
W17	7,084.63	16,705.05	7,084.63	9,323.31	2.0 x 0.159	1	RB = round 11/16
W18	7,084.63	16,705.05	7,084.63	9,323.31	2.0 x 0.159	1	RB = round 11/16

^{*} Symmetrical Joist



Job Number: Job Name: LRFD - SJI SUBMITTAL 00-0002

Joist Description:
Deep Long Span 30KCS5 JUAREZ,

Date Run: 10/8/2006 Mark: **J14**

Geometry

Base Length: 50-0	Working Lengt	I	Joist De 30.00		Efective Depth: 28.45	BC Panel Length: 10 @ 12-0	Shape: Parallel Chords
Variable	Left End	Right	t End				
BC Panel	5-0	5-0					
TC Panel	3-7	3-7		₽		\wedge	
First Half	2-0	2-0			$/$ \vee \vee		

2-0 2-0 First Half 7-0 First Diag. 7-0 Depth 30.00 30.00

Loads

Moment Capacity (inch-kips)	2,749.50	Gross Moment of Inertia (in^4)	934.00
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Stress Analysis Summary

Int. Panel TC: 24.00	Max Panel BC: 48.00	Reaction LE: 13,800.00	Reaction 13,800.		nimum Shear: 3,800.00	Max TC Comp.: 96,650.91	Max BC 7 96,650.	
Member	TC Tension	TC Compresion	BC Tension	BC Compresion	Web Tension	Web Comp.	Web Length	PP Dist.
W2	0.00	28,135.80	0.00	0.00	31,337.89	0.00	64.60	0-2
V1S	0.00	96,650.90	0.00	0.00	16,076.32	16,076.32	33.14	3-7
W3	0.00	96,650.90	96,650.91	0.00	18,055.07	18,055.07	37.22	5-0
W4	0.00	96,650.90	96,650.91	0.00	18,055.07	18,055.07	37.22	7-0
W5	0.00	96,650.90	96,650.91	0.00	18,055.07	18,055.07	37.22	9-0
W6	0.00	96,650.91	96,650.91	0.00	18,055.07	18,055.07	37.22	11-0
W7	0.00	96,650.91	96,650.91	0.00	18,055.07	18,055.07	37.22	13-0
W8	0.00	96,650.91	96,650.91	0.00	18,055.07	18,055.07	37.22	15-0
W9	0.00	96,650.91	96,650.90	0.00	18,055.07	18,055.07	37.22	17-0
W10	0.00	96,650.91	96,650.90	0.00	18,055.07	18,055.07	37.22	19-0
W11	0.00	96,650.91	96,650.89	0.00	18,055.07	18,055.07	37.22	21-0
W12	0.00	96,650.90	96,650.89	0.00	18,055.07	18,055.07	37.22	23-0

^{*} Symmetrical Joist

Member	Position	Max Tension	Max Comp.	Length
V2	Interior	13,800.00	13,800.00	28.45



Job Number: **00-002**

Job Name: LRFD - SJI SUBMITTAL

Joist Description:
Deep Long Span 30KCS5

Date Run: 10/8/2006 Mark: **J14**

Chord Properties

Chord	Area	Rx	Rz	Ryy	Υ	lx	Q	Material
TC	1.4375	0.9304	0.5924	1.6333	0.8424	1.2442	0.9607	$33 = 3 \times 3 \times .250$
ВС	1.0971	0.7723	0.4925	1.4353	0.7099	0.6543	0.9964	2E = 2 1/2 x 2 1/2 x .230

Axial and Bending Analysis

<i>Κ</i> : 1.00	<i>Fy:</i> 50,000.00	Fb: 45,000.00	Mom of Inertia: 1,008.99	LL 240: 461.51	LL 240: 461.51	Max Bridg 7 23-1 5/8	TC: Max Bridg BC: 28-8 1/2
Top C	Chord Check	End Panel LE	First Panel LE	Interior Panel	First Panel RE	End Panel RE	Gap Between Chords:
Length		41.00	41.00	24.00	41.00	41.00	1.00
Bending Loa	ad	550.00	0.00	0.00	0.00	550.00	Min Weld Len 2X: 0.7364
Axial Load		28,135.80	96,650.90	96,650.91	96,650.90	28,135.80	Max Load Fillers TC:
fa		9,786.36	33,617.70	33,617.71	33,617.70	9,786.36	118,615.24
Maximum K	CL/r	69.21	44.07	25.80	44.07	69.21	Max Load no Fillers TC:
Fa		30,879.02	37,718.70	41,257.48	37,718.70	30,879.02	110,755.74
F'e		76,891.73	76,891.73	224,401.03	76,891.73	76,891.73	TC OAL/Ryy: 364.9120
Cm		0.9618	0.8688	0.9401	0.8688	0.9618	BC Stress:
Panel Point	Moment	8555.87	0.00	0.00	0.00	8555.87	44,048.36
Mid Panel N	/loment	5827.85	0.00	0.00	0.00	5827.85	BC L/Rz:
Panel Point	fb	7418.28	0.00	0.00	0.00	7418.28	97.4700
Mid Panel fl	b	1972.82	0.00	0.00	0.00	1972.82	TC Shear Stress:
Fillers		0	1	0	1	0	9,311.12
Panel Point	Stress	17,204.64	33,617.70	33,617.71	33,617.70	17,204.64	BC Shear Stress: 12,146.25
Mid Panel S	Stress	0.3672	0.8913	0.8148	0.8913	0.3672	,

TTCD Doolgi							
Member	Web Tension	Allow Tension	Web Comp	Allow Comp	Weld	Qty	Material
W2	31,337.89	31,808.63	0.00	3,582.58	6.1 x 0.230	1	RM = round 1
W3	18,055.07	39,337.92	18,055.07	19,441.20	4.3 x 0.188	1	$28 = 2 \times 2 \times .232$
W4	18,055.07	30,286.08	18,055.07	18,496.95	4.6 x 0.176	1	24 = 2 x 2 x .176
W5	18,055.07	30,286.08	18,055.07	18,496.95	4.6 x 0.176	1	24 = 2 x 2 x .176
W6	18,055.07	30,286.08	18,055.07	18,496.95	4.6 x 0.176	1	24 = 2 x 2 x .176
W7	18,055.07	30,286.08	18,055.07	18,496.95	4.6 x 0.176	1	$24 = 2 \times 2 \times .176$
W8	18,055.07	30,286.08	18,055.07	18,496.95	4.6 x 0.176	1	24 = 2 x 2 x .176
W9	18,055.07	30,286.08	18,055.07	18,496.95	4.6 x 0.176	1	$24 = 2 \times 2 \times .176$
W10	18,055.07	30,286.08	18,055.07	18,496.95	4.6 x 0.176	1	$24 = 2 \times 2 \times .176$
W11	18,055.07	30,286.08	18,055.07	18,496.95	4.6 x 0.176	1	$24 = 2 \times 2 \times .176$
W12	18,055.07	30,286.08	18,055.07	18,496.95	4.6 x 0.176	1	$24 = 2 \times 2 \times .176$
V1	16,076.32	28,144.39	16,076.32	18,635.91	4.4 x 0.163	1	23 = 2 x 2 x .163
V2	13,800.00	21,796.88	13,800.00	14,424.00	5.0 x 0.125	1	20 = 2 x 2 x .125

^{*} Symmetrical Joist



STRESS ANALYSIS - PAGE 1 Job Number:

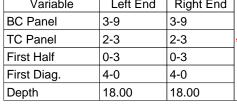
Job Name: LRFD - SJI SUBMITTAL 00-0002

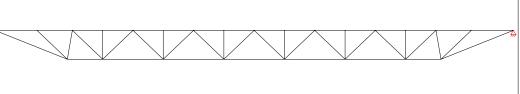
Joist Description:
Deep Long Span 18LH02 JUAREZ,

Date Run: 10/8/2006 Mark: T01

Geometry

Base Length: 26-0		Working Length 25-8	Joist Depth: 18.00	Efective Depth: 17.12	BC Panel Length: 10 @ 12-0	Shape: Parallel Chords	
ı	Variable	Left End	Right End				





Loads

Uniform Load in TC (plf) 675.60 Live Load (plf)	454.40
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Stress Analysis Summary
Int. Panel TC: Max Panel BC:

	· · · · · · · · · · · · · · ·							
Int. Panel TC: 18.00	Max Panel BC: 36.00	Reaction LE: 8,264.67	Reaction 8,264.6		inimum Shear: 066.17	Max TC Comp.: 36,655.30	Max BC 7 37,163.	
Member	TC Tension	TC Compresion	BC Tension	BC Compresion	Neb Tension	Web Comp.	Web Length	PP Dist.
W2	0.00	19,068.84	0.00	0.0	20,525.28	0.00	46.28	0-2
V1S	0.00	17,771.37	0.00	0.0	0.00	1,974.09	24.84	2-3
W3	0.00	17,771.37	18,885.51	0.00	0.00	6,456.36	17.38	3-9
W4	0.00	24,470.30	18,885.51	0.0	7,708.30	0.00	24.84	4-0
W5	0.00	24,470.30	29,039.68	0.0	0.00	6,306.79	24.84	5-6
W6	0.00	32,593.64	29,039.68	0.0	4,905.28	0.00	24.84	7-0
W7	0.00	32,593.64	35,132.18	0.0	0.00	3,503.77	24.84	8-6
W8	0.00	36,655.30	35,132.18	0.0	2,997.67	0.00	24.84	10-0
W9	0.00	36,655.30	37,163.02	0.0	0.00	2,997.67	24.84	11-6

^{*} Symmetrical Joist

Member	Position	Max Tension	Max Comp.	Length
V2	Interior	0.00	1,149.28	17.12



Job Number: **00-0002**

Fb:

Job Name: LRFD - SJI SUBMITTAL

Mom of Inertia:

Joist Description:
Deep Long Span 18LH02

LL 240:

Max Bridg TC:

Date Run: 10/8/2006 Mark: T01

Max Bridg BC:

Chord Properties

Chord	Area	Rx	Rz	Ryy	Υ	lx	Q	Material
TC	0.5260	0.4567	0.2934	1.0483	0.4436	0.1097	1.0000	1K = 1 1/2 x 1 1/2 x .187
ВС	0.4437	0.4609	0.2946	1.0401	0.4324	0.0942	1.0000	1J = 1 1/2 x 1 1/2 x .156

LL 240:

Axial and Bending Analysis

Fy:

0.75 50,000.00	45,000.00	141.35	468.47	468.47	14-10 1/4	20-9 5/8
Top Chord Check	End Panel LE	First Panel LE	Interior Panel	First Panel RE	End Panel RE	Gap Between Chords:
Length	25.00	21.00	18.00	21.00	25.00	1.00
Bending Load	442.00	442.00	442.00	442.00	442.00	Min Weld Len 2X: 0.5000
Axial Load	19,068.84	17,771.37	36,655.30	17,771.37	19,068.84	Max Load Fillers TC:
fa	18,125.21	16,891.94	34,841.39	16,891.94	18,125.21	42,282.71
Maximum K L/r	85.22	71.58	34.34	71.58	85.22	Max Load no Fillers TC:
Fa	26,461.36	30,938.62	41,282.31	30,938.62	26,461.36	39,493.32
F'e	49,844.27	70,640.97	170,933.70	70,640.97	49,844.27	TC OAL/Ryy: 293.8080
Cm	0.8909	0.9283	0.9185	0.9283	0.8909	BC Stress:
Panel Point Moment	2277.37	2277.31	994.50	2277.31	2277.37	41,881.94
Mid Panel Moment	1851.57	479.44	497.25	479.44	1851.57	BC L/Rz:
Panel Point fb	10961.96	10961.67	4786.96	10961.67	10961.96	122.2017
Mid Panel fb	3742.11	968.97	1004.97	968.97	3742.11	TC Shear Stress:
Fillers	0	0	0	0	0	16,289.90
Panel Point Stress	29,087.17	27,853.61	39,628.35	27,853.61	29,087.17	BC Shear Stress: 19,461.37
Mid Panel Stress	0.8014	0.5723	0.8697	0.5723	0.8014	

Member	Web Tension	Allow Tension	Web Comp	Allow Comp	Weld	Qty	Material
W2	20,525.28	27,059.42	0.00	3,034.42	4.3 x 0.215	1	RH = round 7/8
W3	0.00	11,727.85	6,456.36	6,872.40	2.7 x 0.109	1	15 = 1 1/4 x 1 1/4 x .109
W4	7,708.30	9,275.36	0.00	4,795.77	3.2 x 0.109	1	10 = 1 x 1 x .109
W5	0.00	11,727.85	6,306.79	7,621.77	2.6 x 0.109	1	15 = 1 1/4 x 1 1/4 x .109
W6	4,905.28	9,275.36	0.00	4,795.77	2.0 x 0.109	1	10 = 1 x 1 x .109
W7	0.00	9,275.36	3,503.77	4,795.77	2.0 x 0.109	1	10 = 1 x 1 x .109
W8	2,997.67	9,275.36	0.00	4,795.77	2.0 x 0.109	1	10 = 1 x 1 x .109
W9	0.00	9,275.36	2,997.67	4,795.77	2.0 x 0.109	1	10 = 1 x 1 x .109
V1	0.00	9,275.36	1,974.09	4,795.77	2.0 x 0.109	1	10 = 1 x 1 x .109
V2	0.00	9,275.36	1,149.28	6,780.08	2.0 x 0.109	1	10 = 1 x 1 x .109

^{*} Symmetrical Joist



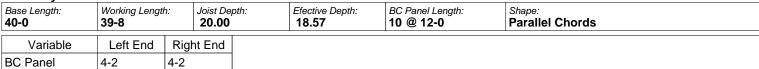
STRESS ANALYSIS - PAGE 1 Job Number:

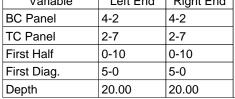
Job Name: LRFD - SJI SUBMITTAL

Joist Description:
Deep Long Span 20LH10 JUAREZ,

Date Run: 10/8/2006 Mark: **T02**

Geometry





Loads

Uniform Load in TC (plf)	855.80 Live Load (plf)	406.40
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Stress Analysis Summary

Int. Panel TC: 20.00	Max Panel BC: 40.00	Reaction LE: 15,700.07	Reaction 15,700.		nimum Shear: 925.02	Max TC Comp.: 100,631.77	Max BC 7	
Member	TC Tension	TC Compresion	BC Tension	BC Compresion	Web Tension	Web Comp.	Web Length	PP Dist.
W2	0.00	38,117.98	0.00	0.00	40,869.95	0.00	51.47	0-2
V1S	0.00	36,160.21	0.00	0.00	0.00	3,240.42	26.56	2-7
W3	0.00	36,160.21	43,071.05	0.00	0.00	14,573.33	21.09	4-2
W4	0.00	55,151.69	43,071.05	0.00	16,483.42	0.00	27.29	5-0
W5	0.00	55,151.69	65,811.09	0.00	0.00	14,544.20	27.29	6-8
W6	0.00	75,049.23	65,811.09	0.00	12,604.97	0.00	27.29	8-4
W7	0.00	75,049.23	82,866.12	0.00	0.00	10,665.75	27.29	10-0
W8	0.00	89,261.75	82,866.12	0.00	8,726.52	0.00	27.29	11-8
W9	0.00	89,261.75	94,236.13	0.00	0.00	6,787.29	27.29	13-4
W10	0.00	97,789.26	94,236.13	0.00	5,769.20	0.00	27.29	15-0
W11	0.00	97,789.26	99,921.15	0.00	0.00	5,769.20	27.29	16-8
W12	0.00	100,631.77	99,921.15	0.00	5,769.20	0.00	27.29	18-4

^{*} Symmetrical Joist

Member	Position	Max Tension	Max Comp.	Length
V2	Interior	0.00	1,822.49	18.57



Job Number: Job Name: 00-0002 LRFD - S.

Job Name: LRFD - SJI SUBMITTAL

Joist Description:
Deep Long Span 20LH10

Date Run: 10/8/2006 Mark: T02

Chord Properties

С	Chord	Area	Rx	Rz	Ryy	Υ	lx	Q	Material
	TC	1.1875	0.7695	0.4915	1.4400	0.7171	0.7031	1.0000	2F = 2 1/2 x 2 1/2 x .250
	ВС	1.1875	0.7695	0.4915	1.4400	0.7171	0.7031	1.0000	2F = 2 1/2 x 2 1/2 x .250

Axial and Bending Analysis

κ: 0.75	Fy: 50,000.00	Fb: 45,000.00	Mom of Inertia: 410.72	LL 240: 368.78	LL 240: 368.78	Max Bridg T 20-4 3/4	Max Bridg BC: 28-9 5/8
Top C	hord Check	End Panel LE	First Panel LE	Interior Panel	First Panel RE	End Panel RE	Gap Between Chords:
Length		29.00	29.00	20.00	29.00	29.00	1.00
Bending Loa	ad	575.00	575.00	575.00	575.00	575.00	Min Weld Len 2X: 1.0843
Axial Load		38,117.98	36,160.21	100,631.77	36,160.21	38,117.98	Max Load Fillers TC:
fa		16,049.68	15,225.35	42,371.27	15,225.35	16,049.68	101,109.28
Maximum K	L/r	59.01	59.01	25.00	59.01	59.01	Max Load no Fillers TC:
Fa		34,885.51	34,885.51	42,989.73	34,885.51	34,885.51	98,870.09
F'e		105,139.20	105,139.20	392,986.97	105,139.20	105,139.20	TC OAL/Ryy: 330.5663
Cm		0.9542	0.9566	0.9569	0.9566	0.9542	BC Stress:
Panel Point	Moment	4446.78	4447.52	1597.22	4447.52	4446.78	42,072.06
Mid Panel M	loment	3059.20	1688.16	798.61	1688.16	3059.20	BC L/Rz:
Panel Point	fb	5637.65	5638.59	2024.97	5638.59	5637.65	81.3905
Mid Panel fb)	1559.97	860.84	407.24	860.84	1559.97	TC Shear Stress:
Fillers		0	0	2	0	0	14,265.91
Panel Point	Stress	21,687.32	20,863.94	44,396.24	20,863.94	21,687.32	BC Shear Stress: 14,265.91
Mid Panel S	tress	0.4991	0.4578	0.9953	0.4578	0.4991	,

TTCD Design							
Member	Web Tension	Allow Tension	Web Comp	Allow Comp	Weld	Qty	Material
W2	40,869.95	44,730.88	0.00	6,706.39	7.5 x 0.245	1	RP = round 1 1/8
W3	0.00	24,819.80	14,573.33	17,053.54	4.6 x 0.143	1	$21 = 2 \times 2 \times .143$
W4	16,483.42	17,773.02	0.00	12,485.29	5.4 x 0.138	1	1G = 1 1/2 x 1 1/2 x .138
W5	0.00	21,796.88	14,544.20	15,469.89	5.2 x 0.125	1	$20 = 2 \times 2 \times .125$
W6	12,604.97	13,359.38	0.00	8,044.51	4.5 x 0.125	1	18 = 1 1/4 x 1 1/4 x .125
W7	0.00	16,171.88	10,665.75	11,109.26	3.8 x 0.125	1	1E = 1 1/2 x 1 1/2 x .125
W8	8,726.52	9,275.36	0.00	4,185.07	3.6 x 0.109	1	$10 = 1 \times 1 \times .109$
W9	0.00	11,727.85	6,787.29	7,005.60	2.8 x 0.109	1	15 = 1 1/4 x 1 1/4 x .109
W10	5,769.20	9,275.36	0.00	4,185.07	2.4 x 0.109	1	$10 = 1 \times 1 \times .109$
W11	0.00	11,727.85	5,769.20	7,005.60	2.4 x 0.109	1	15 = 1 1/4 x 1 1/4 x .109
W12	5,769.20	9,275.36	0.00	4,185.07	2.4 x 0.109	1	$10 = 1 \times 1 \times .109$
V1	0.00	9,275.36	3,240.42	4,363.19	2.0 x 0.109	1	$10 = 1 \times 1 \times .109$
V2	0.00	9,275.36	1,822.49	6,417.30	2.0 x 0.109	1	10 = 1 x 1 x .109

^{*} Symmetrical Joist



		STRES	S ANALYSIS - PAGE 1		
1	Job Number: 00-0002	Job Name: LRFD - SJI SUBMITTAL		Date I 10/8/	Run: /2006
	Location:		Joist Description:		Mark:

Geometry

Base Length: 48-0	Working Lengt	th: Joist D 24.00	,	Efective Depth: 22.32	BC Panel Length: 10 @ 12-0	Shape: Parallel Chords
Variable	Left End	Right End				
BC Panel	5-0	5-0				
TC Panel	3-1	3-1	A			
First Half	1-0	1-0				
First Diag.	6-0	6-0				
Depth	24.00	24.00				

Loads

Official Load 1 C (pii)	Uniform Load in TC (plf)	810.20 Live Load (plf)	388.8
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Stress Analysis Summary

Int. Panel TC: 24.00	Max Panel BC: 48.00	Reaction LE: 17,874.99	Reaction 17,875.		nimum Shear: 468.75	Max TC Comp.: 114,503.27	Max BC 1	
Member	TC Tension	TC Compresion	BC Tension	BC Compresion	Web Tension	Web Comp.	Web Length	PP Dist.
W2	0.00	43,600.16	0.00	0.00	46,718.14	0.00	62.15	0-2
V1S	0.00	41,346.38	0.00	0.00	0.00	3,713.33	32.05	3-1
W3	0.00	41,346.38	49,191.22	0.00	0.00	16,568.62	25.34	5-0
W4	0.00	62,898.69	49,191.22	0.00	18,720.50	0.00	32.78	6-0
W5	0.00	62,898.69	74,993.52	0.00	0.00	16,518.09	32.78	8-0
W6	0.00	85,475.69	74,993.52	0.00	14,315.68	0.00	32.78	10-0
W7	0.00	85,475.69	94,345.23	0.00	0.00	12,113.27	32.78	12-0
W8	0.00	101,602.13	94,345.23	0.00	9,910.85	0.00	32.78	14-0
W9	0.00	101,602.13	107,246.38	0.00	0.00	7,708.44	32.78	16-0
W10	0.00	111,278.01	107,246.38	0.00	6,561.35	0.00	32.78	18-0
W11	0.00	111,278.01	113,696.95	0.00	0.00	6,561.35	32.78	20-0
W12	0.00	114,503.27	113,696.95	0.00	6,561.35	0.00	32.78	22-0

^{*} Symmetrical Joist

Member	Position	Max Tension	Max Comp.	Length
V2	Interior	0.00	2,072.52	22.32



Job Number: **00-002**

Job Name: LRFD - SJI SUBMITTAL

Joist Description:
Deep Long Span 24LH11

Date Run: 10/8/2006 Mark: T03

Chord Properties

CI	hord	Area	Rx	Rz	Ryy	Υ	lx	Q	Material
-	TC	1.4375	0.9304	0.5924	1.6333	0.8424	1.2442	0.9607	$33 = 3 \times 3 \times .250$
E	вс	1.3105	0.9336	0.5937	1.6283	0.8340	1.1423	0.9223	31 = 3 x 3 x .227

Axial and Bending Analysis

κ: 0.75	Fy: 50,000.00	Fb: 45,000.00	Mom of Inertia: 685.64	LL 240: 354.77	LL 240: 354.77	Max Bridg 7 23-1 5/8	TC: Max Bridg BC: 32-6 3/4
Top Chord Check		End Panel LE	First Panel LE	Interior Panel	First Panel RE	End Panel RE	Gap Between Chords:
Length		35.00	35.00	24.00	35.00	35.00	1.00
Bending Loa	nd	544.00	544.00	544.00	544.00	544.00	Min Weld Len 2X: 1.2338
Axial Load		43,600.16	41,346.38	114,503.27	41,346.38	43,600.16	Max Load Fillers TC:
fa		15,165.27	14,381.35	39,827.22	14,381.35	15,165.27	119,026.98
Maximum K	L/r	59.08	59.08	22.04	59.08	59.08	Max Load no Fillers TC:
Fa		33,830.35	33,830.35	41,781.37	33,830.35	33,830.35	115,427.12
F'e		105,514.28	105,514.28	398,935.16	105,514.28	105,514.28	TC OAL/Ryy: 350.2176
Cm		0.9569	0.9591	0.9601	0.9591	0.9569	BC Stress:
Panel Point	Moment	6129.88	6130.91	2176.00	6130.91	6129.88	43,380.18
Mid Panel M	loment	4215.04	2329.78	1088.00	2329.78	4215.04	BC L/Rz:
Panel Point	fb	5314.84	5315.74	1886.68	5315.74	5314.84	80.8435
Mid Panel fb)	1426.86	788.67	368.31	788.67	1426.86	TC Shear Stress:
Fillers		0	0	0	0	0	13,515.05
Panel Point	Stress	20,480.12	19,697.09	41,713.90	19,697.09	20,480.12	BC Shear Stress: 14,865.77
Mid Panel S	tress	0.4852	0.4454	0.9623	0.4454	0.4852	

Nob Boolgii								
Member	Web Tension	Allow Tension	Web Comp	Allow Comp	Weld	Qty	Material	
W2	46,718.14	47,342.79	0.00	20,844.46	11.2 x 0.187	2	1K = 1 1/2 x 1 1/2 x .187	
W3	0.00	28,144.39	16,568.62	17,740.92	4.6 x 0.163	1	23 = 2 x 2 x .163	
W4	18,720.50	19,964.88	0.00	11,999.17	5.4 x 0.156	1	1J = 1 1/2 x 1 1/2 x .156	
W5	0.00	24,819.80	16,518.09	17,312.30	5.2 x 0.143	1	21 = 2 x 2 x .143	
W6	14,315.68	16,171.88	0.00	9,576.40	5.1 x 0.125	1	1E = 1 1/2 x 1 1/2 x .125	
W7	0.00	21,796.88	12,113.27	14,401.37	4.4 x 0.125	1	20 = 2 x 2 x .125	
W8	9,910.85	10,546.88	0.00	3,351.02	3.6 x 0.125	1	11 = 1 x 1 x .125	
W9	0.00	14,180.35	7,708.44	8,159.46	3.2 x 0.109	1	1C = 1 1/2 x 1 1/2 x .109	
W10	6,561.35	9,275.36	0.00	2,965.41	2.7 x 0.109	1	10 = 1 x 1 x .109	
W11	0.00	14,180.35	6,561.35	8,159.46	2.7 x 0.109	1	1C = 1 1/2 x 1 1/2 x .109	
W12	6,561.35	9,275.36	0.00	2,965.41	2.7 x 0.109	1	10 = 1 x 1 x .109	
V1	0.00	11,727.85	3,713.33	5,811.08	2.0 x 0.109	1	15 = 1 1/4 x 1 1/4 x .109	
V2	0.00	9,275.36	2,072.52	5,445.50	2.0 x 0.109	1	10 = 1 x 1 x .109	

^{*} Symmetrical Joist



STRESS ANALYSIS - PAGE 1 Job Number: **00-0002**

Job Name: LRFD - SJI SUBMITTAL

Date Run: 10/8/2006

Location: JUAREZ,

Joist Description:
Deep Long Span 28LH05

Mark: T04

Geometry

		Working Lengt 40-8	h: Joist 28. 0	Depth: 10	Efective Depth: 27.00	BC Panel Length: 10 @ 12-0	Shape: Parallel Chords
	Variable	Left End	Right En	t			
E	C Panel	5-10	5-10				
Т	C Panel	3-6	3-6	-			
F	irst Half	0-8	0-8		\bigvee		
F	irst Diag.	6-6	6-6				
	epth	28.00	28.00				

Loads

	Uniform Load in TC (plf)	515.60 Live Load (plf)	350.40
- 11	ormorm zoda m ro (pm)	0 10.00 2.10 2000 (p.i.)	000.10

Stress Analysis Summary

Int. Panel TC: 28.00	Max Panel BC: 56.00	Reaction LE: 10,004.00			inimum Shear: , 501.00	Max TC Comp.: 44,614.33		Max BC Tension 45,209.68	
Member	TC Tension	TC Compresion	BC Tension	BC Compresion	n Web Tension	Web Comp.	Web Length	PP Dist.	
W2	0.00	23,133.36	0.00	0.0	0 24,889.72	0.00	73.16	0-2	
V1S	0.00	21,517.42	0.00	0.0	0.00	2,467.76	38.89	3-6	
W3	0.00	21,517.42	23,777.30	0.0	0.00	7,953.80	28.16	5-10	
W4	0.00	30,326.08	23,777.30	0.0	9,096.88	0.00	38.89	6-6	
W5	0.00	30,326.08	35,684.18	0.0	0.00	7,442.90	38.89	8-10	
W6	0.00	39,851.58	35,684.18	0.0	5,788.92	0.00	38.89	11-2	
W7	0.00	39,851.58	42,828.30	0.0	0.00	4,134.94	38.89	13-6	
W8	0.00	44,614.33	42,828.30	0.0	0 3,603.31	0.00	38.89	15-10	
W9	0.00	44,614.33	45,209.68	0.0	0.00	3,603.31	38.89	18-2	

^{*} Symmetrical Joist

Member	Position	Max Tension	Max Comp.	Length
V2	Interior	0.00	1,371.07	27.00



Job Number: **00-0002**

Job Name: LRFD - SJI SUBMITTAL

Joist Description:
Deep Long Span 28LH05

Date Run: 10/8/2006 Mark: T04

Chord Properties

Chord	Area	Rx	Rz	Ryy	Υ	lx	Q	Material
TC	0.6254	0.6208	0.3951	1.2286	0.5603	0.2410	0.9522	23 = 2 x 2 x .163
ВС	0.5260	0.4567	0.2934	1.0483	0.4436	0.1097	1.0000	1K = 1 1/2 x 1 1/2 x .187

Axial and Bending Analysis K:

K: Fy: 50,000.0	Fb: 45,000.00	Mom of Inertia: 416.81	LL 240: 347.31	LL 240: 347.31	Max Bridg T 17-4 7/8	Max Bridg BC: 20-11 5/8
Top Chord Check	End Panel LE	First Panel LE	Interior Panel	First Panel RE	End Panel RE	Gap Between Chords:
Length	40.00	36.00	28.00	36.00	40.00	1.00
Bending Load	337.00	337.00	337.00	337.00	337.00	Min Weld Len 2X: 0.5000
Axial Load	23,133.36	21,517.42	44,614.33	21,517.42	23,133.36	Max Load Fillers TC:
fa	18,493.93	17,202.07	35,666.87	17,202.07	18,493.93	47,587.27
Maximum K L/r	64.44	91.11	35.43	91.11	64.44	Max Load no Fillers TC:
Fa	32,091.07	24,040.47	39,261.95	24,040.47	32,091.07	42,699.85
F'e	35,964.30	44,400.38	130,482.73	44,400.38	35,964.30	TC OAL/Ryy: 397.1962
Cm	0.8457	0.8838	0.8907	0.8838	0.8457	BC Stress:
Panel Point Moment	4619.03	4619.27	1834.78	4619.27	4619.03	42,972.44
Mid Panel Moment	3544.56	1290.21	917.39	1290.21	3544.56	BC L/Rz:
Panel Point fb	13797.02	13797.73	5480.47	13797.73	13797.02	190.8868
Mid Panel fb	4120.05	1499.69	1066.33	1499.69	4120.05	TC Shear Stress:
Fillers	1	0	4	0	1	16,849.89
Panel Point Stress	32,290.95	30,999.80	41,147.34	30,999.80	32,290.95	BC Shear Stress: 19,719.95
Mid Panel Stress	0.7437	0.7660	0.9389	0.7660	0.7437	

Member	Web Tension	Allow Tension	Web Comp	Allow Comp	Weld	Qty	Material
W2	24,889.72	39,929.76	0.00	13,000.33	7.2 x 0.156	2	1J = 1 1/2 x 1 1/2 x .156
W3	0.00	21,796.88	7,953.80	11,704.05	2.9 x 0.125	1	20 = 2 x 2 x .125
W4	9,096.88	9,275.36	0.00	2,105.95	3.7 x 0.109	1	10 = 1 x 1 x .109
W5	0.00	16,171.88	7,442.90	7,860.28	2.7 x 0.125	1	1E = 1 1/2 x 1 1/2 x .125
W6	5,788.92	9,275.36	0.00	2,105.95	2.4 x 0.109	1	10 = 1 x 1 x .109
W7	0.00	11,727.85	4,134.94	4,205.90	2.0 x 0.109	1	15 = 1 1/4 x 1 1/4 x .109
W8	3,603.31	9,275.36	0.00	2,105.95	2.0 x 0.109	1	10 = 1 x 1 x .109
W9	0.00	11,727.85	3,603.31	4,205.90	2.0 x 0.109	1	15 = 1 1/4 x 1 1/4 x .109
V1	0.00	11,727.85	2,467.76	4,205.90	2.0 x 0.109	1	15 = 1 1/4 x 1 1/4 x .109
V2	0.00	9,275.36	1,371.07	4,256.77	2.0 x 0.109	1	10 = 1 x 1 x .109

^{*} Symmetrical Joist



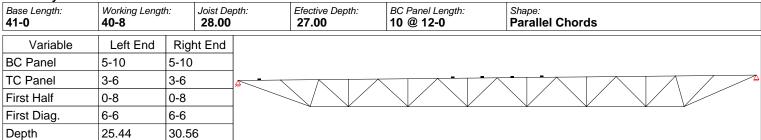
STRESS ANALYSIS - PAGE 1 Job Number:

Job Name: LRFD - SJI SUBMITTAL

Joist Description:
Deep Long Span 28LH05 JUAREZ,

Date Run: 10/8/2006 Mark: **T04S**

Geometry



Loads

Uniform Load in TC (plf) 515.60 Live Load (plf) 350.40

Stress Analysis Summary

Int. Panel TC: 28.00	Max Panel BC: 56.00	Reaction LE: 10,004.00					Max BC 7 45,209.	
Member	TC Tension	TC Compresion	BC Tension	BC Compresion	Web Tension	Web Comp.	Web Length	PP Dist.
W2	0.00	24,818.40	0.00	0.00	26,373.39	0.00	72.26	0-2
V1S	0.00	23,084.77	0.00	0.00	0.00	2,544.28	37.45	3-6
W3	0.00	23,084.77	25,423.76	0.00	0.00	7,747.68	26.49	5-10
W4	0.00	32,057.80	25,423.76	0.00	8,930.44	0.00	37.70	6-6
W5	0.00	32,057.80	37,294.32	0.00	0.00	7,126.81	38.09	8-10
W6	0.00	41,187.40	37,294.32	0.00	5,293.64	0.00	38.09	11-2
W7	0.00	41,187.40	43,773.23	0.00	0.00	3,644.73	38.49	13-6
W8	0.00	45,103.57	43,773.23	0.00	3,644.73	0.00	38.49	15-10
W9	0.00	45,103.57	45,209.68	0.00	0.00	3,603.31	38.89	18-2
W9	0.00	44,140.32	45,209.68	0.00	0.00	3,603.31	38.89	20-6
W8	0.00	44,140.32	41,923.31	0.00	3,564.05	0.00	39.30	22-10
W7	0.00	38,603.74	41,923.31	0.00	0.00	4,662.35	39.30	25-2
W6	0.00	38,603.74	34,207.32	0.00	6,232.49	0.00	39.71	27-6
W5	0.00	28,774.82	34,207.32	0.00	0.00	7,707.13	39.71	29-10
W4	0.00	28,774.82	22,331.12	0.00	9,232.48	0.00	40.13	32-2
W3	0.00	20,151.42	22,331.12	0.00	0.00	8,133.51	29.84	34-6
V1S	0.00	20,151.42	0.00	0.00	0.00	2,408.79	40.40	37-6
W2	0.00	21,664.77	0.00	0.00	23,618.83	0.00	74.14	35-2

Member	Position	Max Tension	Max Comp.	Length
V2	Interior	0.00	1,373.52	28.45



Job Number: **00-0002**

Job Name: LRFD - SJI SUBMITTAL

Joist Description:
Deep Long Span 28LH05

Date Run: 10/8/2006 Mark: T04S

Chord Properties

Chord	Area	Rx	Rz	Ryy	Υ	lx	Q	Material
TC	0.6254	0.6208	0.3951	1.2286	0.5603	0.2410	0.9522	23 = 2 x 2 x .163
ВС	0.5260	0.4567	0.2934	1.0483	0.4436	0.1097	1.0000	1K = 1 1/2 x 1 1/2 x .187

Axial and Bending Analysis

κ: 0.75	Fy: 50,000.00	Fb: 45,000.00	Mom of Inertia: 416.81	LL 240: 347.31	LL 240: 347.31	Max Bridg T 17-4 7/8	Max Bridg BC: 20-11 5/8	
Top C	hord Check	End Panel LE	First Panel LE	Interior Panel	First Panel RE	End Panel RE	Gap Between Chords:	
Length		40.00	36.00	28.00	36.00	40.00	1.00	
Bending Loa	ad	337.00	337.00	337.00	337.00	337.00	Min Weld Len 2X: 0.5000	
Axial Load		24,818.40	23,084.77	45,103.57	20,151.42	21,664.77	Max Load Fillers TC:	
fa		19,841.04	18,455.09	36,057.99	16,110.03	17,319.87	47,586.61	
Maximum K	L/r	64.44	91.11	35.43	91.11	101.24	Max Load no Fillers TC:	
Fa		32,090.07	24,038.97	39,261.57	24,038.97	20,991.14	42,698.78	
F'e		35,960.41	44,395.57	130,468.61	44,395.57	35,960.41	TC OAL/Ryy: 397.1962	
Cm		0.8345	0.8753	0.8895	0.8911	0.8555	BC Stress:	
Panel Point	Moment	4619.53	4619.77	1834.98	4619.77	4619.53	42,972.44	
Mid Panel M	loment	3544.95	1290.35	917.49	1290.35	3544.95	BC L/Rz:	
Panel Point	fb	13798.52	13799.23	5481.06	13799.23	13798.52	190.8868	
Mid Panel fb)	4120.49	1499.85	1066.45	1499.85	4120.49	TC Shear Stress:	
Fillers		1	0	4	0	0	16,830.31	
Panel Point	Stress	33,639.56	32,254.31	41,539.05	29,909.26	31,118.39	BC Shear Stress: 19,680.55	
Mid Panel S	tress	0.7973	0.8202	0.9490	0.7191	0.9838	-,	

WED DESIGN	veb Design										
Member	Web Tension	Allow Tension	Web Comp	Allow Comp	Weld	Qty	Material				
W2	26,373.39	39,929.76	0.00	13,325.58	7.6 x 0.156	2	1J = 1 1/2 x 1 1/2 x .156				
W3	0.00	19,964.88	7,747.68	8,524.72	2.2 x 0.156	1	1J = 1 1/2 x 1 1/2 x .156				
W4	8,930.44	9,275.36	0.00	2,241.28	3.7 x 0.109	1	10 = 1 x 1 x .109				
W5	0.00	16,171.88	7,126.81	8,081.31	2.6 x 0.125	1	1E = 1 1/2 x 1 1/2 x .125				
W6	5,293.64	9,275.36	0.00	2,195.30	2.2 x 0.109	1	10 = 1 x 1 x .109				
W7	0.00	11,727.85	3,644.73	4,294.26	2.0 x 0.109	1	15 = 1 1/4 x 1 1/4 x .109				
W8	3,644.73	9,275.36	0.00	2,150.19	2.0 x 0.109	1	10 = 1 x 1 x .109				
W9	0.00	11,727.85	3,603.31	4,205.90	2.0 x 0.109	1	15 = 1 1/4 x 1 1/4 x .109				
W9	0.00	11,727.85	3,603.31	4,205.90	2.0 x 0.109	1	15 = 1 1/4 x 1 1/4 x .109				
W8	3,564.05	9,275.36	0.00	2,062.59	2.0 x 0.109	1	10 = 1 x 1 x .109				
W7	0.00	14,180.35	4,662.35	6,692.18	2.0 x 0.109	1	1C = 1 1/2 x 1 1/2 x .109				
W6	6,232.49	9,275.36	0.00	2,020.11	2.6 x 0.109	1	10 = 1 x 1 x .109				
W5	0.00	17,773.02	7,707.13	8,447.07	2.5 x 0.138	1	1G = 1 1/2 x 1 1/2 x .138				
W4	9,232.48	9,275.36	0.00	1,978.50	3.8 x 0.109	1	10 = 1 x 1 x .109				
W3	0.00	21,796.88	8,133.51	11,086.97	2.9 x 0.125	1	20 = 2 x 2 x .125				
W2	23,618.83	39,929.76	0.00	12,660.81	6.8 x 0.156	2	1J = 1 1/2 x 1 1/2 x .156				
V1	0.00	11,727.85	2,544.28	3,898.88	2.0 x 0.109	1	15 = 1 1/4 x 1 1/4 x .109				
V2	0.00	9,275.36	1,373.52	4,619.60	2.0 x 0.109	1	10 = 1 x 1 x .109				

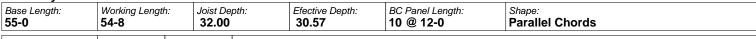


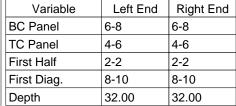
Job Name: LRFD - SJI SUBMITTAL Job Number: 00-0002

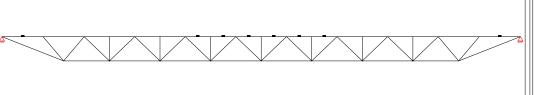
Joist Description:
Deep Long Span 32LH10 JUAREZ,

Date Run: 10/8/2006 Mark: **T05**

Geometry







Loads

Uniform Load in TC (plf)	697.60	Live Load (plf)	406.40

Stress Analysis Summary

Int. Panel TC: 32.00	Max Panel BC: 64.00	Max Panel BC: Reaction LE: Reaction RE: Minimum Shear: 64.00 17,930.67 17,930.67 4,482.67			Max TC Comp.: 96,183.77	Max BC 7 95,268.		
Member	TC Tension	TC Compresion	BC Tension	BC Compresio	n Web Tension	Web Comp.	Web Length	PP Dist.
W2	0.00	42,119.73	0.00	0.0	0 45,239.70	0.00	83.78	0-2
V1S	0.00	39,702.27	0.00	0.0	0.00	4,212.53	40.13	4-6
W3	0.00	39,702.27	51,324.71	0.0	0.00	17,940.43	40.13	6-8
W4	0.00	63,226.09	51,324.71	0.0	0 16,460.10	0.00	44.26	8-10
W5	0.00	63,226.09	73,296.50	0.0	0.00	13,927.78	44.26	11-6
W6	0.00	81,535.91	73,296.50	0.0	0 11,395.46	0.00	44.26	14-2
W7	0.00	81,535.91	87,944.34	0.0	0.00	8,863.13	44.26	16-10
W8	0.00	92,521.81	87,944.34	0.0	0 6,489.08	0.00	44.26	19-6
W9	0.00	92,521.81	95,268.28	0.0	0.00	6,489.08	44.26	22-2
W10	0.00	96,183.77	95,268.28	0.0	0 6,489.08	0.00	44.26	24-10

^{*} Symmetrical Joist

Member	Position	Max Tension	Max Comp.	Length
V2	Interior	0.00	2,230.25	30.57



Job Number: **00-0002**

Location: JUAREZ,

Fb:

Job Name: LRFD - SJI SUBMITTAL

Mom of Inertia:

Joist Description:
Deep Long Span 32LH10

LL 240:

Max Bridg TC:

Date Run: 10/8/2006 *Mark:* **T05**

Max Bridg BC:

Chord Properties

Chord	Area	Rx	Rz	Ryy	Υ	lx	Q	Material
TC	1.1875	0.7695	0.4915	1.4400	0.7171	0.7031	1.0000	2F = 2 1/2 x 2 1/2 x .250
ВС	1.0971	0.7723	0.4925	1.4353	0.7099	0.6543	0.9964	2E = 2 1/2 x 2 1/2 x .230

LL 240:

Axial and Bending Analysis

Fy:

0.75 50,000	0.00	45,000.00	1,067.41	366.14	366.14	20-4 3/4	28-8 1/2	
Top Chord Check	С Е	nd Panel LE	First Panel LE	Interior Panel	First Panel RE	End Panel RE	Gap Between Chords:	
Length		52.00	52.00	32.00	52.00	52.00	1.00	
Bending Load		462.00	462.00	462.00	462.00	462.00	Min Weld Len 2X: 1.0364	
Axial Load		42,119.73	39,702.27	96,183.77	39,702.27	42,119.73	Max Load Fillers TC:	
fa		17,734.63	16,716.74	40,498.43	16,716.74	17,734.63		
Maximum K L/r		67.58	105.81	32.56	105.81	67.58		
Fa		32,225.63	19,847.87	41,644.32	19,847.87	32,225.63	87,784.55	
F'e		32,700.47	32,700.47	153,510.53	32,700.47	32,700.47	TC OAL/Ryy: 455.5704	
Cm		0.8373	0.8466	0.8945	0.8466	0.8373	BC Stress:	
Panel Point Moment		11544.27	11546.60	3285.33	11546.60	11544.27	43,418.23	
Mid Panel Moment		7880.95	4461.91	1642.67	4461.91	7880.95		
Panel Point fb		14635.88	14638.84	4165.16	14638.84	14635.88	129.9600	
Mid Panel fb		4018.72	2275.26	837.64	2275.26	4018.72	TC Shear Stress:	
Fillers		1	0	6	0	1	15,908.06	
Panel Point Stress		32,370.51	31,355.59	44,663.59	31,355.59	32,370.51	BC Shear Stress: 17,268.88	
Mid Panel Stress		0.7137	0.9298	0.9951	0.9298	0.7137	•	

Member	Web Tension	Allow Tension	Web Comp	Allow Comp	Weld	Qty	Material
W2	45,239.70	47,342.79	0.00	11,657.57	10.9 x 0.187	2	1K = 1 1/2 x 1 1/2 x .187
W3	0.00	28,360.71	17,940.43	18,981.05	7.4 x 0.109	2	1C = 1 1/2 x 1 1/2 x .109
W4	16,460.10	17,773.02	0.00	7,061.66	5.4 x 0.138	1	1G = 1 1/2 x 1 1/2 x .138
W5	0.00	24,819.80	13,927.78	14,062.51	4.4 x 0.143	1	21 = 2 x 2 x .143
W6	11,395.46	11,727.85	0.00	3,248.40	4.7 x 0.109	1	15 = 1 1/4 x 1 1/4 x .109
W7	0.00	21,796.88	8,863.13	11,885.45	3.2 x 0.125	1	20 = 2 x 2 x .125
W8	6,489.08	9,275.36	0.00	1,626.52	2.7 x 0.109	1	$10 = 1 \times 1 \times .109$
W9	0.00	17,773.02	6,489.08	7,061.66	2.1 x 0.138	1	1G = 1 1/2 x 1 1/2 x .138
W10	6,489.08	9,275.36	0.00	1,626.52	2.7 x 0.109	1	$10 = 1 \times 1 \times .109$
V1	0.00	13,359.38	4,212.53	4,469.78	2.0 x 0.125	1	18 = 1 1/4 x 1 1/4 x .125
V2	0.00	9,275.36	2,230.25	3,408.41	2.0 x 0.109	1	10 = 1 x 1 x .109

^{*} Symmetrical Joist



	STRESS ANALYSIS - PAGE 1								
Job Number: 00-0002									
Location: JUAREZ,		Joist Description: Deep Long Span 36LH15		Mark: T06					

Geometry

Base Length: 48-0	Working Length: Joist De 36.00		,	Efective Depth: 34.16	BC Panel Length: 10 @ 12-0	Shape: Parallel Chords
Variable	Left End	Right End				
BC Panel	7-6	7-6				
TC Panel	4-7	4-7	A			
First Half	1-6	1-6		\searrow		
First Diag.	9-0	9-0		•	•	
Depth	36.00	36.00				

Loads

Uniform Load in TC (plf) 1,474.60 Live Load (plf)	1,078.40
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Stress Analysis Summary

Int. Panel TC: Max Panel BC:

Int. Panel TC: 36.00	Max Panel BC: 72.00	Reaction LE: 33,795.66			inimum Shear: 448.92	Max TC Comp.: 141,490.69		Max BC Tension 139,248.89	
Member	TC Tension	TC Compresion	BC Tension	BC Compresion	Web Tension	Web Comp.	Web Length	PP Dist.	
W2	0.00	79,003.42	0.00	0.0	84,745.72	0.00	94.40	0-2	
V1S	0.00	72,585.86	0.00	0.0	0.00	9,674.51	48.90	4-7	
W3	0.00	72,585.86	85,445.21	0.0	0.00	27,582.45	38.61	7-6	
W4	0.00	105,621.58	85,445.21	0.0	27,812.61	0.00	49.63	9-0	
W5	0.00	105,621.58	121,314.33	0.0	0.00	21,632.03	49.63	12-0	
W6	0.00	132,523.44	121,314.33	0.0	15,451.45	0.00	49.63	15-0	
W7	0.00	132,523.44	139,248.89	0.0	0.00	12,275.32	49.63	18-0	
W8	0.00	141,490.69	139,248.89	0.0	12,275.32	0.00	49.63	21-0	

^{*} Symmetrical Joist

Member	Position	Max Tension	Max Comp.	Length
V2	Interior	0.00	4,961.45	34.16



Job Number: **00-0002**

Fb:

Job Name: LRFD - SJI SUBMITTAL

Mom of Inertia:

Joist Description:
Deep Long Span 36LH15

LL 240:

Max Bridg TC:

Date Run: 10/8/2006 Mark: T06

Max Bridg BC:

Chord Properties

Chord	Area	Rx	Rz	Ryy	Υ	lx	Q	Material
TC	2.0867	1.0826	0.6900	1.8419	0.9902	2.4454	0.9854	$3E = 3 \frac{1}{2} \times 3 \frac{1}{2} \times .312$
ВС	1.6070	0.9260	0.5907	1.6401	0.8536	1.3780	1.0000	35 = 3 x 3 x .281

LL 240:

Axial and Bending Analysis

Fy:

0.75 50,000.00	45,000.00	2,122.11	1,098.03	1,098.03	26-1 1/8	32-9 5/8
Top Chord Check	End Panel LE	First Panel LE	Interior Panel	First Panel RE	End Panel RE	Gap Between Chords:
Length	53.00	53.00	36.00	53.00	53.00	1.00
Bending Load	957.00	957.00	957.00	957.00	957.00	Min Weld Len 2X: 1.5246
Axial Load	79,003.42	72,585.86	141,490.69	72,585.86	79,003.42	Max Load Fillers TC:
fa	18,930.63	17,392.87	33,903.69	17,392.87	18,930.63	172,309.89
Maximum K L/r	76.81	76.81	26.09	76.81	76.81	Max Load no Fillers TC:
Fa	28,986.88	28,986.88	42,222.15	28,986.88	28,986.88	162,093.88
F'e	62,301.41	62,301.41	240,061.25	62,301.41	62,301.41	TC OAL/Ryy: 310.5505
Cm	0.9088	0.9162	0.9435	0.9162	0.9088	BC Stress:
Panel Point Moment	24739.88	24744.13	8613.00	24744.13	24739.88	43,324.68
Mid Panel Moment	16998.38	9420.10	4306.50	9420.10	16998.38	BC L/Rz:
Panel Point fb	12695.82	12698.00	4419.95	12698.00	12695.82	121.8910
Mid Panel fb	3441.46	1907.17	871.89	1907.17	3441.46	TC Shear Stress:
Fillers	0	0	0	0	0	16,932.96
Panel Point Stress	31,626.45	30,090.87	38,323.64	30,090.87	31,626.45	BC Shear Stress: 21,950.79
Mid Panel Stress	0.7544	0.6547	0.8246	0.6547	0.7544	•

Member	Web Tension	Allow Tension	Web Comp	Allow Comp	Weld	Qty	Material
W2	84,745.72	91,355.04	0.00	46,265.79	17.9 x 0.212	2	2C = 2 1/2 x 2 1/2 x .212
W3	0.00	39,929.76	27,582.45	29,170.43	7.9 x 0.156	2	1J = 1 1/2 x 1 1/2 x .156
W4	27,812.61	28,144.39	0.00	14,449.09	7.7 x 0.163	1	$23 = 2 \times 2 \times .163$
W5	0.00	42,187.50	21,632.03	21,759.96	5.2 x 0.188	1	$29 = 2 \times 2 \times .250$
W6	15,451.45	16,171.88	0.00	5,141.58	5.5 x 0.125	1	1E = 1 1/2 x 1 1/2 x .125
W7	0.00	24,819.80	12,275.32	12,491.43	3.9 x 0.143	1	$21 = 2 \times 2 \times .143$
W8	12,275.32	13,359.38	0.00	2,923.49	4.4 x 0.125	1	18 = 1 1/4 x 1 1/4 x .125
V1	0.00	21,796.88	9,674.51	10,819.17	3.5 x 0.125	1	20 = 2 x 2 x .125
V2	0.00	11,727.85	4,961.45	5,299.61	2.0 x 0.109	1	15 = 1 1/4 x 1 1/4 x .109

^{*} Symmetrical Joist



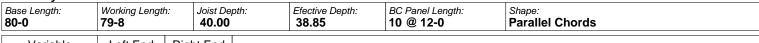
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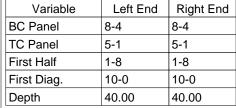
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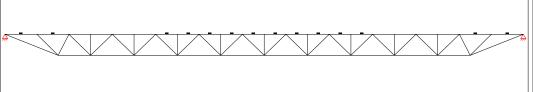
Joist Description:
Deep Long Span 40LH08 JUAREZ,

Date Run: 10/8/2006 Mark: **T07**

Geometry







Loads

Uniform Load in TC (plf) 260.20 Live Load (plf)	132.80
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Stress Analysis Summary

Int. Panel TC: 40.00					finimum Shear: ,409.92	Max TC Comp.: 59,302.25	Max BC 7 58,886.	
Member	TC Tension	TC Compresion	BC Tension	BC Compresio	n Web Tension	Web Comp.	Web Length	PP Dist.
W2	0.00	22,815.70	0.00	0.0	0 24,543.11	0.00	105.42	0-2
V1S	0.00	21,621.27	0.00	0.0	0.00	1,982.45	55.05	5-1
W3	0.00	21,621.27	25,665.01	0.0	0.00	8,834.68	43.70	8-4
W4	0.00	32,724.68	25,665.01	0.0	0 9,841.38	0.00	55.76	10-0
W5	0.00	32,724.68	38,953.80	0.0	0.00	8,683.57	55.76	13-4
W6	0.00	44,352.37	38,953.80	0.0	0 7,525.76	0.00	55.76	16-8
W7	0.00	44,352.37	48,920.41	0.0	0.00	6,367.95	55.76	20-0
W8	0.00	52,657.86	48,920.41	0.0	0 5,210.14	0.00	55.76	23-4
W9	0.00	52,657.86	55,564.79	0.0	0.00	4,052.33	55.76	26-8
W10	0.00	57,641.15	55,564.79	0.0	0 3,458.96	0.00	55.76	30-0
W11	0.00	57,641.15	58,886.98	0.0	0.00	3,458.96	55.76	33-4
W12	0.00	59,302.25	58,886.98	0.0	0 3,458.96	0.00	55.76	36-8

^{*} Symmetrical Joist

Member	Position	Max Tension	Max Comp.	Length
V2	Interior	0.00	1,103.18	38.85



Job Number: **00-0002**

Location: JUAREZ,

Fb:

Job Name: LRFD - SJI SUBMITTAL

Mom of Inertia:

Joist Description:
Deep Long Span 40LH08

LL 240:

Max Bridg TC:

Date Run: 10/8/2006 *Mark:* **T07**

Max Bridg BC:

Chord Properties

Chord	Area	Rx	Rz	Ryy	Υ	lx	Q	Material
TC	0.8742	0.6113	0.3918	1.2455	0.5852	0.3266	1.0000	28 = 2 x 2 x .232
ВС	0.6730	0.6189	0.3944	1.2318	0.5650	0.2578	0.9808	24 = 2 x 2 x .176

LL 240:

Axial and Bending Analysis

Fy:

0.75 50,000.00	45,000.00	1,148.45	127.28	127.28	17-7 3/4	24-7 5/8
Top Chord Check	End Panel LE	First Panel LE	Interior Panel	First Panel RE	End Panel RE	Gap Between Chords:
Length	59.00	59.00	40.00	59.00	59.00	1.00
Bending Load	174.00	174.00	174.00	174.00	174.00	Min Weld Len 2X: 0.6390
Axial Load	22,815.71	21,621.27	59,302.25	21,621.27	22,815.71	Max Load Fillers TC:
fa	13,049.84	12,366.66	33,918.94	12,366.66	13,049.84	
Maximum K L/r	96.52	96.52	51.05	96.52	96.52	
Fa	22,771.25	22,771.25	37,193.05	22,771.25	22,771.25	49,756.90
F'e	16,029.49	16,029.49	61,998.50	16,029.49	16,029.49	TC OAL/Ryy: 767.5443
Cm	0.7558	0.7686	0.7812	0.7686	0.7558	
Panel Point Moment	5574.80	5575.76	1933.33	5575.76	5574.80	
Mid Panel Moment	3829.78	2123.45	966.67	2123.45	3829.78	
Panel Point fb	12073.09	12075.18	4186.93	12075.18	12073.09	202.8424
Mid Panel fb	3430.73	1902.19	865.95	1902.19	3430.73	TC Shear Stress:
Fillers	1	1	10	1	1	11,728.97
Panel Point Stress	25,122.93	24,441.83	38,105.87	24,441.83	25,122.93	BC Shear Stress: 15,391.21
Mid Panel Stress	0.8831	0.6853	0.9452	0.6853	0.8831	

Web Design							
Member	Web Tension	Allow Tension	Web Comp	Allow Comp	Weld	Qty	Material
W2	24,543.11	26,718.75	0.00	2,915.23	8.8 x 0.125	2	18 = 1 1/4 x 1 1/4 x .125
W3	0.00	32,086.39	8,834.68	9,086.30	2.1 x 0.187	1	$25 = 2 \times 2 \times .187$
W4	9,841.38	10,546.88	0.00	1,157.86	3.5 x 0.125	1	11 = 1 x 1 x .125
W5	0.00	21,796.88	8,683.57	9,258.16	3.1 x 0.125	1	$20 = 2 \times 2 \times .125$
W6	7,525.76	9,275.36	0.00	1,024.62	3.1 x 0.109	1	$10 = 1 \times 1 \times .109$
W7	0.00	21,796.88	6,367.95	9,258.16	2.3 x 0.125	1	$20 = 2 \times 2 \times .125$
W8	5,210.14	9,275.36	0.00	1,024.62	2.1 x 0.109	1	$10 = 1 \times 1 \times .109$
W9	0.00	16,171.88	4,052.33	4,072.25	2.0 x 0.125	1	1E = 1 1/2 x 1 1/2 x .125
W10	3,458.96	9,275.36	0.00	1,024.62	2.0 x 0.109	1	$10 = 1 \times 1 \times .109$
W11	0.00	14,180.35	3,458.96	3,594.02	2.0 x 0.109	1	1C = 1 1/2 x 1 1/2 x .109
W12	3,458.96	9,275.36	0.00	1,024.62	2.0 x 0.109	1	$10 = 1 \times 1 \times .109$
V1	0.00	11,727.85	1,982.45	2,099.68	2.0 x 0.109	1	15 = 1 1/4 x 1 1/4 x .109
V2	0.00	9,275.36	1,103.18	2,110.82	2.0 x 0.109	1	10 = 1 x 1 x .109

^{*} Symmetrical Joist



Job Number: **00-002** Job Name: LRFD - SJI SUBMITTAL

Location: JUAREZ, Joist Description:
Deep Long Span 44LH13 Date Run: 10/8/2006 Mark: **T08**

Geometry

Base Length: 76-0	Working Lengt	th:	Joist De 44.00	•	Efective Depth: 42.29	BC Panel Length: 10 @ 12-0	Shape: Parallel Chords
Variable	Left End	Righ	t End				
BC Panel	9-2	9-2					
TC Panel	6-3	6-3		<u>-</u> √	•		
First Half	3-2	3-2				\bigvee \bigvee \bigvee	
First Diag.	12-4	12-4					

Depth Loads

Uniform Load in TC (plf)	670.80 Live Load (plf)	393.60

Stress Analysis Summary

44.00

44.00

Int. Panel TC: Max Panel BC: 44.00 88.00		Reaction LE: 23,880.40			nimum Shear: 970.10	Max TC Comp.: 128,174.50		Max BC Tension 126,970.58	
Member	TC Tension	TC Compresion	BC Tension	BC Compresion	Web Tension	Web Comp.	Web Length	PP Dist.	
W2	0.00	56,078.99	0.00	0.00	60,225.55	0.00	115.99	0-2	
V1S	0.00	52,901.31	0.00	0.00	0.00	5,625.02	54.90	6-3	
W3	0.00	52,901.31	69,182.74	0.00	0.00	24,360.72	56.86	9-2	
W4	0.00	84,833.62	69,182.74	0.00	21,708.52	0.00	61.03	12-4	
W5	0.00	84,833.62	98,076.66	0.00	0.00	18,368.75	61.03	16-0	
W6	0.00	108,911.89	98,076.66	0.00	15,028.98	0.00	61.03	19-8	
W7	0.00	108,911.89	117,339.28	0.00	0.00	11,689.20	61.03	23-4	
W8	0.00	123,358.84	117,339.28	0.00	8,615.09	0.00	61.03	27-0	
W9	0.00	123,358.84	126,970.58	0.00	0.00	8,615.09	61.03	30-8	
W10	0.00	128,174.50	126,970.58	0.00	8,615.09	0.00	61.03	34-4	

^{*} Symmetrical Joist

Member	Position	Max Tension	Max Comp.	Length
V2	Interior	0.00	2,955.27	42.29



Job Number: **00-002**

Job Name: LRFD - SJI SUBMITTAL

Joist Description:
Deep Long Span 44LH13

Date Run: 10/8/2006 *Mark:* **T08**

Chord Properties

Chord	Area	Rx	Rz	Ryy	Υ	lx	Q	Material
TC	1.7747	0.9218	0.5892	1.6470	0.8649	1.5078	1.0000	$37 = 3 \times 3 \times .312$
ВС	1.4375	0.9304	0.5924	1.6333	0.8424	1.2442	0.9607	33 = 3 x 3 x .250

Axial and Bending Analysis

κ: 0.75	Fy: 50,000.00	Fb: 45,000.00	Mom of Inertia: 2,843.86	LL 240: 367.86	LL 240: 367.86	Max Bridg T 23-4	TC: Max Bridg BC: 32-8
Top Choi	d Check	End Panel LE	First Panel LE	Interior Panel	First Panel RE	End Panel RE	Gap Between Chords:
Length		73.00	73.00	44.00	73.00	73.00	1.00
Bending Load		444.00	444.00	444.00	444.00	444.00	Min Weld Len 2X: 1.3811
Axial Load		56,078.99	52,901.31	128,174.50	52,901.31	56,078.99	Max Load Fillers TC:
fa		15,799.96	14,904.67	36,112.49	14,904.67	15,799.96	140,647.09
Maximum K L/r		79.20	79.20	37.34	79.20	79.20	Max Load no Fillers TC:
Fa		28,447.48	28,447.48	40,638.67	28,447.48	28,447.48	123,946.30
F'e		23,808.63	23,808.63	116,507.06	23,808.63	23,808.63	TC OAL/Ryy: 551.3192
Cm		0.8009	0.8122	0.8760	0.8122	0.8009	BC Stress:
Panel Point Mo	ment	21878.79	21883.33	5969.33	21883.33	21878.79	44,163.68
Mid Panel Mon	nent	14921.09	8475.79	2984.67	8475.79	14921.09	BC L/Rz:
Panel Point fb		15490.88	15494.10	4226.48	15494.10	15490.88	148.5546
Mid Panel fb		4279.31	2430.82	855.99	2430.82	4279.31	TC Shear Stress:
Fillers		1	1	2	1	1	14,143.09
Panel Point Str	ess	31,290.85	30,398.76	40,338.97	30,398.76	31,290.85	BC Shear Stress: 17,591.41
Mid Panel Stres	SS	0.7818	0.6413	0.9128	0.6413	0.7818	

Web Design							
Member	Web Tension	Allow Tension	Web Comp	Allow Comp	Weld	Qty	Material
W2	60,225.55	60,572.16	0.00	14,064.17	15.4 x 0.176	2	$24 = 2 \times 2 \times .176$
W3	0.00	43,593.75	24,360.72	26,623.33	8.7 x 0.125	2	$20 = 2 \times 2 \times .125$
W4	21,708.52	21,796.88	0.00	8,100.30	7.8 x 0.125	1	$20 = 2 \times 2 \times .125$
W5	0.00	43,593.75	18,368.75	25,388.91	6.6 x 0.125	2	$20 = 2 \times 2 \times .125$
W6	15,028.98	16,171.88	0.00	3,399.46	5.4 x 0.125	1	1E = 1 1/2 x 1 1/2 x .125
W7	0.00	32,086.39	11,689.20	11,923.78	2.8 x 0.187	1	$25 = 2 \times 2 \times .187$
W8	8,615.09	9,275.36	0.00	855.34	3.5 x 0.109	1	$10 = 1 \times 1 \times .109$
W9	0.00	24,819.80	8,615.09	9,284.56	2.7 x 0.143	1	$21 = 2 \times 2 \times .143$
W10	8,615.09	9,275.36	0.00	855.34	3.5 x 0.109	1	$10 = 1 \times 1 \times .109$
V1	0.00	21,796.88	5,625.02	9,452.39	2.0 x 0.125	1	$20 = 2 \times 2 \times .125$
V2	0.00	11,727.85	2,955.27	3,557.19	2.0 x 0.109	1	15 = 1 1/4 x 1 1/4 x .109

^{*} Symmetrical Joist

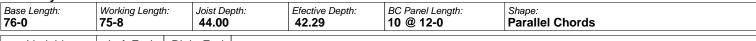


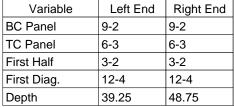
Job Name: LRFD - SJI SUBMITTAL

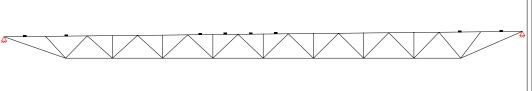
Joist Description:
Deep Long Span 44LH13 JUAREZ,

Date Run: 10/8/2006 Mark: **T08S**

Geometry







Loads

	Uni	form Load in TC (plf)	670.80	Live Load (plf)	393.60)
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Stress Analysis Summary

Int. Panel TC: Max Panel BC 44.00 88.00		Reaction LE: 23,880.40	Reaction 23,880.		imum Shear: 70.10	Max TC Comp.: 128,181.43	Max BC 1 128,361	
Member	TC Tension	TC Compresion	BC Tension	BC Compresion	Web Tension	Web Comp.	Web Length	PP Dist.
W2	0.00	61,306.53	0.00	0.00	64,905.38	0.00	114.35	0-2
V1S	0.00	57,832.63	0.00	0.00	0.00	5,792.04	51.90	6-3
W3	0.00	57,832.63	74,861.73	0.00	0.00	24,433.36	54.51	9-2
W4	0.00	90,738.27	74,861.73	0.00	21,229.09	0.00	58.85	12-4
W5	0.00	90,738.27	103,695.47	0.00	0.00	17,518.01	59.47	16-0
W6	0.00	113,853.15	103,695.47	0.00	13,719.52	0.00	59.47	19-8
W7	0.00	113,853.15	121,282.33	0.00	0.00	10,153.56	60.09	23-4
W8	0.00	126,098.62	121,282.33	0.00	8,766.76	0.00	60.09	27-0
W9	0.00	126,098.62	128,361.63	0.00	0.00	8,664.28	60.71	30-8
W10	0.00	128,181.43	128,361.63	0.00	0.00	8,664.28	60.71	34-4
W10	0.00	128,181.43	125,609.33	0.00	8,567.21	0.00	61.35	38-0
W9	0.00	120,748.38	125,609.33	0.00	0.00	8,567.21	61.35	41-8
W8	0.00	120,748.38	113,644.51	0.00	9,999.29	0.00	61.99	45-4
W7	0.00	104,392.51	113,644.51	0.00	0.00	13,042.98	61.99	49-0
W6	0.00	104,392.51	93,035.45	0.00	16,160.26	0.00	62.64	52-8
W5	0.00	79,658.56	93,035.45	0.00	0.00	19,049.96	62.64	56-4
W4	0.00	79,658.56	64,304.57	0.00	22,081.10	0.00	63.30	60-0
W3	0.00	48,749.74	64,304.57	0.00	0.00	24,270.47	59.28	63-8
V1S	0.00	48,749.74	0.00	0.00	0.00	5,494.08	58.01	69-9
W2	0.00	51,678.05	0.00	0.00	56,360.68	0.00	117.79	66-10

Member	Position	Max Tension	Max Comp.	Length
V2	Interior	0.00	2,955.32	45.04



Job Number: 00-0002

Location:

Fb:

Job Name: LRFD - SJI SUBMITTAL

Joist Description:
Deep Long Span 44LH13

LL 240:

Max Bridg TC:

Date Run: 10/8/2006 Mark: T08S

Chord Properties

K:

Chord	Area	Rx	Rz	Ryy	Υ	lx	Q	Material
TC	1.7747	0.9218	0.5892	1.6470	0.8649	1.5078	1.0000	$37 = 3 \times 3 \times .312$
ВС	1.4375	0.9304	0.5924	1.6333	0.8424	1.2442	0.9607	33 = 3 x 3 x .250

LL 240:

Axial and Bending Analysis

Fy:

0.75 50,000.00	45,000.00	2,843.86	367.86	367.86	23-4	32-8
Top Chord Check	End Panel LE	First Panel LE	Interior Panel	First Panel RE	End Panel RE	Gap Between Chords:
Length	73.00	73.00	44.00	73.00	73.00	1.00
Bending Load	444.00	444.00	444.00	444.00	444.00	Min Weld Len 2X: 1.3811
Axial Load	61,306.53	57,832.63	128,181.43	48,749.74	51,678.05	Max Load Fillers TC:
fa	17,272.79	16,294.04	36,114.44	13,734.98	14,560.02	140,645.03
Maximum K L/r	79.20	79.20	37.34	79.20	79.20	Max Load no Fillers TC:
Fa	28,446.07	28,446.07	40,638.22	28,446.07	28,446.07	123,942.81
F'e	23,806.05	23,806.05	116,494.42	23,806.05	23,806.05	TC OAL/Ryy: 551.3192
Cm	0.7823	0.7947	0.8760	0.8269	0.8165	BC Stress:
Panel Point Moment	21881.16	21885.70	5969.98	21885.70	21881.16	44,647.52
Mid Panel Moment	14922.71	8476.71	2984.99	8476.71	14922.71	BC L/Rz:
Panel Point fb	15492.57	15495.78	4226.94	15495.78	15492.57	148.5546
Mid Panel fb	4279.77	2431.09	856.08	2431.09	4279.77	TC Shear Stress:
Fillers	1	1	4	1	1	14,051.30
Panel Point Stress	32,765.36	31,789.81	40,341.38	29,230.76	30,052.58	BC Shear Stress: 17,485.48
Mid Panel Stress	0.8783	0.7089	0.9128	0.5884	0.7118	

Mom of Inertia:

5	1.00
)	Min Weld Len 2X: 1.3811
5 2	Max Load Fillers TC: 140,645.03
) 7	Max Load no Fillers TC: 123,942.81
5	TC OAL/Ryy: 551.3192
5 5	BC Stress: 44,647.52
1	BC L/Rz

Max Bridg BC:

Member	Web Tension	Allow Tension	Web Comp	Allow Comp	Weld	Qty	Material
W2	64,905.38	70,017.75	0.00	16,602.97	15.5 x 0.188	2	26 = 2 x 2 x .205
W3	0.00	43,593.75	24,433.36	27,302.58	8.8 x 0.125	2	$20 = 2 \times 2 \times .125$
W4	21,229.09	21,796.88	0.00	8,572.72	7.6 x 0.125	1	20 = 2 x 2 x .125
W5	0.00	39,929.76	17,518.01	18,960.06	5.0 x 0.156	2	1J = 1 1/2 x 1 1/2 x .156
W6	13,719.52	14,180.35	0.00	3,160.25	5.7 x 0.109	1	1C = 1 1/2 x 1 1/2 x .109
W7	0.00	28,144.39	10,153.56	10,834.89	2.8 x 0.163	1	23 = 2 x 2 x .163
W8	8,766.76	9,275.36	0.00	882.45	3.6 x 0.109	1	10 = 1 x 1 x .109
W9	0.00	24,819.80	8,664.28	9,369.10	2.7 x 0.143	1	21 = 2 x 2 x .143
W10	0.00	24,819.80	8,664.28	9,369.10	2.7 x 0.143	1	21 = 2 x 2 x .143
W10	8,567.21	9,275.36	0.00	846.48	3.5 x 0.109	1	10 = 1 x 1 x .109
W9	0.00	24,819.80	8,567.21	9,199.87	2.7 x 0.143	1	21 = 2 x 2 x .143
W8	9,999.29	10,546.88	0.00	936.84	3.6 x 0.125	1	11 = 1 x 1 x .125
W7	0.00	39,337.92	13,042.98	14,023.38	3.1 x 0.188	1	28 = 2 x 2 x .232
W6	16,160.26	16,171.88	0.00	3,226.97	5.8 x 0.125	1	1E = 1 1/2 x 1 1/2 x .125
W5	0.00	43,593.75	19,049.96	24,905.81	6.8 x 0.125	2	$20 = 2 \times 2 \times .125$
W4	22,081.10	23,671.40	0.00	4,538.42	5.3 x 0.187	1	1K = 1 1/2 x 1 1/2 x .187
W3	0.00	43,593.75	24,270.47	25,909.46	8.7 x 0.125	2	$20 = 2 \times 2 \times .125$
W2	56,360.68	60,572.16	0.00	13,636.03	14.4 x 0.176	2	24 = 2 x 2 x .176
V1	0.00	21,796.88	5,792.04	10,132.35	2.1 x 0.125	1	20 = 2 x 2 x .125
V2	0.00	11,727.85	2,955.32	4,069.17	2.0 x 0.109	1	15 = 1 1/4 x 1 1/4 x .109



STRESS ANALYSIS - PAGE 1 Job Number:

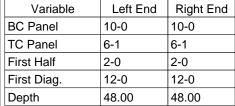
Job Name: LRFD - SJI SUBMITTAL

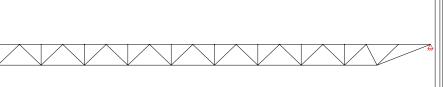
Joist Description:
Deep Long Span 48LH17 JUAREZ,

Date Run: 10/8/2006 Mark: **T09**

Geometry

	 Working Length: 95-8	Joist Depth: 48.00	Efective Depth: 45.75	BC Panel Length: 10 @ 12-0	Shape: Parallel Chords
ш					





Loads

	Uniform Load in TC (plf)	770.00 Live Load (plf)	392.00
ш	Official Education (pii)	770.00 Live Load (pii)	002.00

Stress Analysis Summary

Int. Panel TC: 48.00	Max Panel BC: 96.00	Reaction LE: 34,248.67	Reaction 34,248.		nimum Shear: 562.17	Max TC Comp.: 214,867.09	Max BC 7 213,364	
Member	TC Tension	TC Compresion	BC Tension	BC Compresion	Web Tension	Web Comp.	Web Length	PP Dist.
W2	0.00	82,878.88	0.00	0.00	88,889.13	0.00	126.56	0-2
V1S	0.00	78,526.44	0.00	0.00	0.00	7,148.07	65.59	6-1
W3	0.00	78,526.44	93,160.64	0.00	0.00	31,499.91	51.66	10-0
W4	0.00	118,703.98	93,160.64	0.00	35,285.86	0.00	66.31	12-0
W5	0.00	118,703.98	141,242.22	0.00	0.00	31,134.59	66.31	16-0
W6	0.00	160,775.38	141,242.22	0.00	26,983.30	0.00	66.31	20-0
W7	0.00	160,775.38	177,303.38	0.00	0.00	22,832.03	66.31	24-0
W8	0.00	190,826.33	177,303.38	0.00	18,680.75	0.00	66.31	28-0
W9	0.00	190,826.33	201,344.16	0.00	0.00	14,529.47	66.31	32-0
W10	0.00	208,856.91	201,344.16	0.00	12,410.59	0.00	66.31	36-0
W11	0.00	208,856.91	213,364.56	0.00	0.00	12,410.59	66.31	40-0
W12	0.00	214,867.09	213,364.56	0.00	12,410.59	0.00	66.31	44-0

^{*} Symmetrical Joist

Member	Position	Max Tension	Max Comp.	Length
V2	Interior	0.00	3,938.34	45.75



Job Number: **00-002**

Job Name: LRFD - SJI SUBMITTAL

Joist Description:
Deep Long Span 48LH17

Date Run: 10/8/2006 *Mark:* **T09**

Chord Properties

Chord	Area	Rx	Rz	Ryy	Υ	lx	Q	Material
TC	2.8594	1.2346	0.7876	2.0514	1.1383	4.3586	1.0000	$42 = 4 \times 4 \times .375$
ВС	2.3987	1.2435	0.7911	2.0386	1.1154	3.7090	0.9348	41 = 4 x 4 x .312

Axial and Bending Analysis

κ: 0.75	<i>Fy:</i> 50,000.00	Fb: 45,000.00	Mom of Inertia: 5,467.62	LL 240: 349.95	LL 240: 349.95	Max Bridg T 29-0 3/4	C: Max Bridg BC: 40-9 1/4
Top Ch	nord Check	End Panel LE	First Panel LE	Interior Panel	First Panel RE	End Panel RE	Gap Between Chords:
Length		71.00	71.00	48.00	71.00	71.00	1.00
Bending Loa	d	515.00	515.00	515.00	515.00	515.00	Min Weld Len 2X: 2.3152
Axial Load		82,878.88	78,526.44	214,867.09	78,526.44	82,878.88	Max Load Fillers TC:
fa		14,492.48	13,731.40	37,572.39	13,731.40	14,492.48	237,042.92
Maximum K I	L/r	90.15	90.15	30.47	90.15	90.15	Max Load no Fillers TC:
Fa		24,839.38	24,839.38	42,045.98	24,839.38	24,839.38	217,805.11
F'e		45,155.71	45,155.71	175,640.39	45,155.71	45,155.71	TC OAL/Ryy: 559.6061
Cm		0.9037	0.9088	0.9144	0.9088	0.9037	BC Stress:
Panel Point N	√loment	23898.04	23902.19	8240.00	23902.19	23898.04	44,475.85
Mid Panel Mo	oment	16413.78	9107.56	4120.00	9107.56	16413.78	BC L/Rz:
Panel Point f	b	7845.20	7846.56	2705.01	7846.56	7845.20	121.3523
Mid Panel fb		2143.35	1189.29	538.00	1189.29	2143.35	TC Shear Stress:
Fillers		0	0	0	0	0	12,931.19
Panel Point S	Stress	22,337.68	21,577.96	40,277.40	21,577.96	22,337.68	BC Shear Stress: 15,502.42
Mid Panel St	ress	0.6468	0.5873	0.9075	0.5873	0.6468	

TTOD Boolgi							
Member	Web Tension	Allow Tension	Web Comp	Allow Comp	Weld	Qty	Material
W2	88,889.13	91,355.04	0.00	27,887.54	21.3 x 0.188	2	2C = 2 1/2 x 2 1/2 x .212
W3	0.00	49,639.59	31,499.91	33,726.78	9.9 x 0.143	2	$21 = 2 \times 2 \times .143$
W4	35,285.86	39,337.92	0.00	12,256.87	8.4 x 0.188	1	$28 = 2 \times 2 \times .232$
W5	0.00	56,288.79	31,134.59	32,829.86	8.6 x 0.163	2	$23 = 2 \times 2 \times .163$
W6	26,983.30	28,144.39	0.00	8,919.56	7.4 x 0.163	1	23 = 2 x 2 x .163
W7	0.00	43,593.75	22,832.03	23,794.72	8.2 x 0.125	2	$20 = 2 \times 2 \times .125$
W8	18,680.75	19,964.88	0.00	3,517.17	5.4 x 0.156	1	1J = 1 1/2 x 1 1/2 x .156
W9	0.00	39,929.76	14,529.47	15,816.67	4.2 x 0.156	2	1J = 1 1/2 x 1 1/2 x .156
W10	12,410.59	13,359.38	0.00	1,637.48	4.5 x 0.125	1	18 = 1 1/4 x 1 1/4 x .125
W11	0.00	42,187.50	12,410.59	13,101.22	3.0 x 0.188	1	$29 = 2 \times 2 \times .250$
W12	12,410.59	13,359.38	0.00	1,637.48	4.5 x 0.125	1	18 = 1 1/4 x 1 1/4 x .125
V1	0.00	24,819.80	7,148.07	8,089.39	2.2 x 0.143	1	21 = 2 x 2 x .143
V2	0.00	14,180.35	3,938.34	5,311.51	2.0 x 0.109	1	1C = 1 1/2 x 1 1/2 x .109

^{*} Symmetrical Joist



	STR	ESS ANALYSIS - PAGE 1		
Job Number: 00-0002	Job Name: LRFD - SJI SUBMITTA	AL	Date 10/8	Run: /2006
Location: JUAREZ,		Joist Description: Deep Long Span 72DLH19		Mark: T10

Geometry

Base Length: 144-0	Working Lengt	th: Joist E 72.0	,	Efective Depth: 69.26	BC Panel Length: 10 @ 12-0	Shape: Parallel Chords
Variable	Left End	Right End				
BC Panel	15-0	15-0				
TC Panel	9-1	9-1			^ -	
First Half	3-0	3-0		\checkmark \checkmark \checkmark		
First Diag.	18-0	18-0				
Depth	72.00	72.00				

Loads

Uniform Load in TC (plf) 743.00 Live Load (plf) 3	Uniform Load in TC (plf)	377.60
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Stress Analysis Summary

Int. Panel TC: May Panel BC:

Int. Panel TC: 72.00	Max Panel BC: 144.00	Reaction LE: 49,622.47	Reaction 49,622.		Minimum Shear: 12,405.62		Max BC 1 306,632	
Member	TC Tension	TC Compresion	BC Tension	BC Compresion	Web Tension	Web Comp.	Web Length	PP Dist.
W2	0.00	119,611.84	0.00	0.00	128,348.00	0.00	191.00	0-2
V1S	0.00	113,297.66	0.00	0.00	0.00	10,364.92	99.19	9-1
W3	0.00	113,297.66	134,287.28	0.00	0.00	45,512.11	78.06	15-0
W4	0.00	170,910.61	134,287.28	0.00	50,818.10	0.00	99.91	18-0
W5	0.00	170,910.61	203,225.33	0.00	0.00	44,839.50	99.91	24-0
W6	0.00	231,231.39	203,225.33	0.00	38,860.90	0.00	99.91	30-0
W7	0.00	231,231.39	254,928.86	0.00	0.00	32,882.30	99.91	36-0
W8	0.00	274,317.69	254,928.86	0.00	26,903.70	0.00	99.91	42-0
W9	0.00	274,317.69	289,397.91	0.00	0.00	20,925.10	99.91	48-0
W10	0.00	300,169.47	289,397.91	0.00	17,894.28	0.00	99.91	54-0
W11	0.00	300,169.47	306,632.41	0.00	0.00	17,894.28	99.91	60-0
W12	0.00	308,786.66	306,632.41	0.00	17,894.28	0.00	99.91	66-0

^{*} Symmetrical Joist

Member	Position	Max Tension	Max Comp.	Length
V2	Interior	0.00	5,688.73	69.26



Job Number: **00-0002**

Fb:

Job Name: LRFD - SJI SUBMITTAL

Mom of Inertia:

Joist Description:
Deep Long Span 72DLH19

LL 240:

Max Bridg TC:

Date Run: 10/8/2006 *Mark:* **T10**

Max Bridg BC:

Chord Properties

Chord	Area	Rx	Rz	Ryy	Υ	lx	Q	Material
TC	5.7500	1.2996	1.2996	1.6865	1.5543	9.7122	1.0000	P2 = 4 x 0.500 w 4 PL
BC	3.7500	1.2178	0.7823	2.0777	1.1833	5.5615	1.0000	46 = 4 x 4 x .500

LL 240:

Axial and Bending Analysis

Fy:

0.75 50,000.00	45,000.00	21,792.35	411.84	411.84	23-10 3/4	41-6 5/8
Top Chord Check	End Panel LE	First Panel LE	Interior Panel	First Panel RE	End Panel RE	Gap Between Chords:
Length	107.00	107.00	72.00	107.00	107.00	1.00
Bending Load	497.00	497.00	497.00	497.00	497.00	Min Weld Len 2X: 3.3272
Axial Load	119,611.84	113,297.67	308,786.66	113,297.67	119,611.84	Max Load Fillers TC:
fa	11,523.30	10,915.00	29,748.23	10,915.00	11,523.30	401,973.13
Maximum K L/r	82.33	82.33	41.55	82.33	82.33	Max Load no Fillers TC:
Fa	27,414.01	27,414.01	39,663.59	27,414.01	27,414.01	401,973.13
F'e	22,030.92	22,030.92	86,499.31	22,030.92	22,030.92	TC OAL/Ryy: 1,022.2497
Cm	0.8431	0.8514	0.8624	0.8514	0.8431	BC Stress:
Panel Point Moment	52391.89	52401.09	17892.00	52401.09	52391.89	40,884.32
Mid Panel Moment	35970.86	19983.73	8946.00	19983.73	35970.86	BC L/Rz:
Panel Point fb	6596.48	6597.63	2252.72	6597.63	6596.48	184.0800
Mid Panel fb	2878.41	1599.11	715.86	1599.11	2878.41	TC Shear Stress:
Fillers	1	1	14	1	1	12,744.96
Panel Point Stress	18,119.77	17,512.63	32,000.95	17,512.63	18,119.77	BC Shear Stress: 14,105.86
Mid Panel Stress	0.5899	0.4881	0.7709	0.4881	0.5899	,

Web Design							
Member	Web Tension	Allow Tension	Web Comp	Allow Comp	Weld	Qty	Material
W2	128,348.00	129,375.00	0.00	24,989.68	23.0 x 0.250	2	$33 = 3 \times 3 \times .250$
W3	0.00	81,002.79	45,512.11	48,966.38	10.9 x 0.187	2	2A = 2 1/2 x 2 1/2 x .187
W4	50,818.10	56,288.79	0.00	17,680.69	14.0 x 0.163	2	23 = 2 x 2 x .163
W5	0.00	98,739.00	44,839.50	46,491.37	10.7 x 0.188	2	2E = 2 1/2 x 2 1/2 x .230
W6	38,860.90	39,337.92	0.00	5,399.12	9.3 x 0.188	1	28 = 2 x 2 x .232
W7	0.00	81,002.79	32,882.30	37,522.47	7.9 x 0.187	2	2A = 2 1/2 x 2 1/2 x .187
W8	26,903.70	28,144.39	0.00	3,929.04	7.4 x 0.163	1	23 = 2 x 2 x .163
W9	0.00	70,017.75	20,925.10	21,749.16	5.0 x 0.188	2	26 = 2 x 2 x .205
W10	17,894.28	23,455.71	0.00	2,868.57	7.4 x 0.109	2	15 = 1 1/4 x 1 1/4 x .109
W11	0.00	60,572.16	17,894.28	18,955.58	4.6 x 0.176	2	24 = 2 x 2 x .176
W12	17,894.28	23,455.71	0.00	2,868.57	7.4 x 0.109	2	15 = 1 1/4 x 1 1/4 x .109
V1	0.00	43,593.75	10,364.92	14,062.40	3.7 x 0.125	2	$20 = 2 \times 2 \times .125$
V2	0.00	23,455.71	5,688.73	5,968.39	2.3 x 0.109	2	15 = 1 1/4 x 1 1/4 x .109

^{*} Symmetrical Joist